je Mining Immal,

FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

No. 1442.—Vol. XXXIII.

LONDON, SATURDAY, APRIL 11, 1863.

(SUPPLEMENT) STAMPED,....SIXPENCE. UNSTAMPED,.FIVEPENCE.

R. JAMES CROFTS, SHAREBROKER,
Mr. CROFTS transacts business, in the way of PURCHASE or SALE, in every descripnof stocks, but particularly in BRITISH MINES, in no case departing from the poion of a broker, at net prices. All orders meet with the atmost punctuality and
it, and advice given as to the nature and eligibility of INVESTMENTS, when required,
CHANGES OF STOCK effected on the most advantageous basis, subject only to one

TR. CROFTS' "MINING CIRCULAR," No. 3, is published this day. Contents:—Mining Maxims. On the Comparative Mode of Valuing nes. Mining Reviews:—Okel Tor, West Maria and Fortescue, Calstock Consols, ndeen, Cefn Clicen, Pentre Lygan, North Crofty, Quebrada, South Hingston, Central ucen, Ceth Cheen, Fentre Lygan, North Crofty, Quebrada, South Hings era. Latest Quotations. *, Subscription, 21s. per annum; a single copy, six stamps. ated April 11, 1863.

St. Just United, £3%; 10 Sithney Caromeal, £2%; 5 Vigra and Clogan, £25.

TOCK AND SHAREDEALER.—MR. PETER WATSON, ENGLISH AND FOREIGN STOCK, SHARE, AND MINING OFFICES, 79, D BEOAD-STREET, LONDON, E.C. PELEGRAPHIC MESSAGES to BUY or SELL Railway, Bank, Mine, and other area and Stocks, punctually attended to on commission, or at nett prices for cash, or fortnightly settlements, with advice as to purchases or sales.

Eighteen years' experience.

(Two in Cornwall and Sixteen in London.)
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n. which at all times are carried out with punctuality, and to the best advantage of clients.

R. LELEAN, 11, ROYAL EXCHANGE, LONDON, E.C., has FOR SALE the FOLLOWING MINING SHARES, free of commission:—
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Basset.
Bottle Hill.
Camborne Vean, 39a 6d.
Condurrow.
10 Lady Bertha, 16a, 3d.
10 Mark Valley, £7 18a 9d.
10 Lady Bertha, 16a, 3d.
10 Mark Valley, £7 18a 9d.
11 More Valley, £7 18a 9d.
12 Morth Minera, 6a, 9d.
12 North Minera, 6a, 9d.
13 Long Rake, £194.
14 Devon Great Consols.
15 North Basset, £4 10s.
16 North Crofty, £5 9a 6d.
25 Lat Jane, 52s. 6d.
26 Carradon, £42%.
26 Lat Jane, 52s. 6d.
27 North Roskera, £52.
28 Lat Jane, 52s. 6d.
29 Care Servance, £3 12 6
20 Rosewarne United.
28 L. Rosewarne, £3 2a 6d.
29 Rosewarne United.
29 Wheal Hearle.
29 United Mexican, £64%.
29 West Polmear, 3a. 9d.
29 West Condurrow, £44%.
29 West Condurrow, £44%.
29 West Condurrow, £44%.
20 Rosewarne United.
20 Wheal Prosper, 38s. 9d.
21 Wheal Botton, £252.
25 Wheal Unity, £5 7s. 6d.
26 Wheal Prosper, 38s. 9d.
27 Wheal Hacarle.
29 Wheal Grebit, £57s. 6d.
29 Wheal Trevelyan, 6s. 9d.
20 Wheal Prosper, 38s. 9d.
21 Wheal Builer, £65.
28 St. Ives Consols, £224.
28 Wheal Union, £54%.
29 Wheal Crebor, 29s. 6d.
20 Condurrow.

ols, £20; any part of 500 North Education, and according to the cach, earnestly advise the immediate purchase of Wheal Crebor, Rosewarne United, durrow, East Rosewarne, East Treskerby, and St. John del Ray.

Mr. Lelean requests that all shares for sale be sent in on Thursday evening to insure their insertion.—April 10, 1863.

MINE SHARE DEALER, R JOHN METHERELL, MINE SHARE DEALER,

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METHERELL, having been practically engaged in mining for the post 30 years, to give sound advice as to dealing in shares.

Telegraphic orders punctually attended to.

R. H. WADDINGTON, MINING AND SHAREBROKER, 20, THROGMORTON STREET, LONDON, E.C. ming prize is Seton, the best dividend (copper) mine in the West. West and olgus shares should be bought; the points about coming off will probably cause

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THREADNEEDLE STREET, LONDON, E.C.
Dally price list may be had on application.

R SALE:—

Last Basset, £87,

Last Carn Brea, £8%,

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Last Russell, £4%,

Last Russell, £4%,

Last Russell, £4%,

Last Carn Brea, £3 80 40 Wheal Crebor, 31s. 6d.

Last Carn Brea, £8%,

Last Carn Last Car

R. THOS. THOMPSON, MINING OFFICES,
12, OLD JEWEY CHAMBERS, LONDON, E.C.
THOMPSON has the means of obtaining the very first information, and is fully osof giving the best advice, either for investment or speculation.

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BEAZLEY recommends for Immediate Purchase, for Investment, North Roskear,
1 Crofty, East Chiverton, North Pool, New Scion, East Scion, East Carn Brea,
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ICHARD CLIFT, MINE SHAREDEALER, late of Redruth, now 48, THREADNEEDLE-STREET, LONDON, where all

ESSRS. R. HORLEY AND CO., SWORN STOCK, SHARE, and MINING BROKERS, 45, CORNHILL, E.C. (late of 2, Royal Exchange-build-TRANSACT EVERY DESCRIPTION OF MINING BUSINESS, on commission and are in a position to obtain reliable information respecting all dividend and

selve mines,
—Messrs, Horley and Co. publish a Weekly Mining List, with the closing prices
Wednesday, and will be most happy to forward the same (gratis) on application.

Wednessay, and will be most nappy to forward ins same (grains) on application.

R. GEORGE BUDGE, SHAREBROKER, No. 4, ROYAL EXCHANGE BULDINGS, LONDON, E.C. (Established 16 years), has FOR Eat nett prices: -50 Drake Walls, £2; 3 East Based, £864; 5 Gorenville, £5½; andeen; 65 Crebor, 38. 66.; 2 South Frances, £95; 50 Wheal Edward, £3½; 250 as Barbara, 17s.; 40 North Crofty; 100 Garreg, 4s.; 200 New Prospidnick, 10s.; 25 vort, £15½; 5 Long Rake, £19½; 2 Copper Hill; 50 East Care Brea, £8½; 100 hmipers, 6s.; 50 Gawton, 11s.; 30 Great Caradon; 150 Molland, 3s. 6d.; 70 hmiper United, 9s. 6d.; 25 Kelly Bray, 17s. 6d.; 20 Ludcott; 2 Herodshot, £48; 100 carrowth, £13½; 40 St. Day United, 16s.; 25 East Caradon; 2 Trelawny, £17½; heal Seton, £252; 150 Dale, 9s.; 3 West Rose Down, £15½.

O R G E M O 1, CROWN COURT, THREADNEEDLE STREET In any business that GEORGE MOORE is favoured with, in which he is the buyer, he will give CASH ON RECEIPT OF TRANSFER.

In any business that Goroge Moore is favoured with, in which he is the buyer, he will give CASH ON RECEIPT OF TRANSFER.

JAMES HERRON has FOR SALE the following SHARES, at the prices quoted, and FREE OF COMMISSION:—
30 Aifred Consols (all calls 30 Kelly Bray, 16s. paid), 7s. 9d. 20 Ledy Bortha, 17s. 5 Aberffryd. 5 Linares. 10 Ludoots, £3 16s. 3d. 10 South Basset. 10 Tolcarno. £3/4. 5 Trelyon. 10 Tolcarno. £3/4. 5 Trelyon

And is a BUYER of 500 North Minera, or any portion, at 4s. 6d.; 30 South Cars Brea, 24 5s.; 10 Wheal Buller, 263; 20 Bryn Gwlog, £29 10s.; 200 St. Day United and 10 St. John del Rey, £55½.

2, Adam's-court, Old Broad-street, April 10, 1863.

MESSRS. VIVIAN AND REYNOLDS, 68, OLD BROAD M ESSIGN. VIVIAN AND RELIANDS, 68, 610 AND STREET, LONDON, E.C., MINING ENGINEERS, INSPECTORS of MINES, COMMISSION, and GENERAL AGENTS for the PURCHASE or SALE of MINE SHARES, RAILWAY, and EVERY OTHER DESCRIPTION of STOCK.

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Bankers: London and Westminster, Lothbury.

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C. Powell's office adjoins the Mining Exchange, and from his long experience in and thorough knowledge of the market, he is enabled to act promptly, and to the interest of his clients, on all orders with which he may be favoured, either by post or telegraph. Mines inspected and reported on by competent agents, and advice given as to what shares should be bought or sold.—Bankers: City Bank, Finch-lane. MR. BATTERS PUBLISHES a DAILY STOCK, SHARE, and

MINING CIRCULAR contains particulars of all movements in Bullion, Foreign schanges, Consols, Foreign Stocks, Railways, Mines, &c., and can be had by his client ee, on application.—5, Cowper's-court, Birchin-lane, London, E.C. MR. BATTERS strongly recommends his friends to buy Tincroft shares for investment, as being perfectly free from speculation, will pay good netreest for money, and steadily advance in price.

6, Cowper's-court, Birchin-lane, London, E.C.

NORTH CROFTY.—This mine is destined to occupy ere long a

first place in the list of the successes of the rich Dolcoath die 5, Cowper's-court, Birchin-lane, London, April 2, 1863.

LLOGAN MINES.—Already discoveries of importance have been made. The locality is the best in England, being under the shadow of Carn Brestill. Management the same as Tincroft. Shares should be bought.

5, Cowper-court, Birohin-lane, London, E.C.

G. BATTERS.

JOHN RISLEY, 32, LOMBARD STREET, LONDON, E.C., SHARES in MINES BOUGHT and SOLD on commission, at 14 per cent., for immediate cash.

Speculators should not lose sight of the following five mines, viz.:—Pendeen Consols Condurrow, North Crofty, Copper Hill, and North Rosker, all of which are confidently expected to improve from 50 to 100 per cent. before the end of the year.

Bankers: London and Westminster, Lothbury.

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The Consols and the Consols an

April 10, 1863. Bankers: Bank of London.

MESSRS. WARD AND JACKMAN, STOCK AND SHAREBROKERS, 2, ADAM'S COURT, OLD BROAD STREET, AND MINING EXCHANGE, LONDON, E.C. (ESTABLISHED TEN YEARS.)

TRANSACT BUSINESS IN BRITISH AND FOREIGN MINING SHARES and OTHER SECURITIES at closest prices, not or one commission, but not being DEALERS only execute orders confided to them.

Telegraphic messages to buy or sell shares of every description promptly executed for immediate cash, or the fortnightly settlements.

Commission, 14, per cent. on all transactions.

April 10, 1863. Bankers: London and Westminster, Lothbury.

MESSRS. T. P. THOMAS AND SON beg to inform their friends and the public that their NEXT SALE of MINING SHARES by PUBLIC AUCTION will be HELD at Garraway's Coffee-house, Change-alley, Cornahil, London, on THURSDAY, the 21st day of May next, at One c'olcok, and they particularly request parties wishing to put shares up for sale on that day to send their instructions as early as possible, and not later than May 8, that they may be advertised in the Mining Journal, and marked in the catalogues.

T. P. Thomas AND Son finding that their friends' property is frequently sacrificed for want of publicity, they have deternained in future not to offer shares unless previously advertised in the Mining Journal.

Mining and other shares bought and sold privately.

Commission and time bargains negociated.

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16, HACKINS HEY, LIVERPOOL.
Mr. T. E. W. THOMAS'S pamphlet, containing particulars of a few of the leading mines, with his advice to speculators and investors for 1863, is now ready, and can be had post free for all targets. free for six stamps.

MR. FRAS. G. LANE, MINING SHAREDEALER,
44, THREADNEEDLE STREET, LONDON, E.C.
Commission, 1½ per cent.
Bankers: London and County Bank.

WHEAL SETON.
COPPER HILL.
WHEAL TBELAWNY.
CALVADNACK.
WHEAL UNION.
NORTH BASSET.

SOUTH WHEAL FRANCES. SOUTH TOLGUS. WHEAL MARGARET, SOUTH CARN BREA. EAST CHIVERTON. NORTH DOLCOATH.

MR. FREDK. W. MANSELL, of 75, OLD BROAD STREET, 372 LONDON, strongly RECOMMENDS the IMMEDIATE PURCHASE of the ABOVE SHARES, at present market price.
Mr. Mansell is in possession of information respecting the whole of them, which leaves no doubt of a great advance in the price of each of the shares mentioned.

OTHER THAN "MARKET" MINES CLAIM ATTENTION. From the "few" mines more particularly noticed from day to day in the "public" prints and "circulars," it may be presumed by the inexperienced that no others exist, whereas there are many "established "mines scarcely noticed, or, if they are, only with disfavour, although at nominal quotations, and which would do justice to the uninitiated and reflect credit on the unbiased. A reliable list of such may be had from the undersigned, through whom business is simply solicited in return.

Twenty-fave years' experience in Cornwall and London.

Mining Offices, 77, Old Bread-street, London, April 10, 1863.

H. B. RYE.

SHARES WANTED.—MR. H. B. RYE, of 77, OLD BROAD
STREET and MINING EXCHANGE, E.C., is a BUYER of—
Wheal Kitty (Lelant).
Clifford Amalgamated,
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South Carn Bres.
South Carn Bres.
St. Ives Wheal Allen.
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Copper Hill.

JOSEPH GREGORY, STOCK AND SHAREBROKER, 2, HATTON COURT, THREADNEEDLE STREET, LONDON, E.C. Commission on purchase and sale of mining shares, 1½ per cent. Bankers: City Bank.

WILLIAM SEWARD, MINING BROKER, STOCK AND SHAREDEALER, 31, THROGMORTON STREET, LONDON, E.C. Commission, 114 per cent. on all transactions.

JAMES HUME, SHAREBROKER, 74, OLD BROAD STREET.

LONDON, E.C. SHARES FOR SALE:-5 Stray Park, £37. 20 Ludcott, £5½. 1 Seton, £250. 20 East Rosewarne, £3 50 Crebor, 31s. 200 East Carn Brea, £9.

10 East Caradon, £42½. 1 Seton, £200. 200 East Cara Brea, £9. Mr. Hume transacts business at prices or on commission, and in the latter case he invariably returns the price dealt at.

J. Hume's "Circular" of April will contain special reports on East Basset, Copper Hill, East Caradon, and the leading mines. Single copy, 6d. Subscription, 5s. per year.

Bankers: London and Joint-stock Bank.

MR. JEHU HITCHINS, having been especially engaged to go to the Brazila, which will most likely detain him hearly four months, assures his friends that the affairs of his office will not be neglected, having left a power of attorney with Mr. Newton, who has assisted in the business for many years, and in whom Mr. Hitchins has every confidence. St. Michael's House, St. Michael's-alley, Cornhill, London, April 10, 1863.

TAMES H. COCK, MINE SHAREBROKER AND DEALER.

REDRUTH. CORNWALL.

J. H. Cork, having had 10 years' experience in the mining market, and being thoroughly acquainted with mines and their management, is in a position to advise or do business on the most advantageous terms. Cash or time bargains promptly attended to.

MR. T. H. ANDREW, MINE BROKER, LELANT, HAYLE, CORYWALL. Business at all times in Providence, East Providence, Margaret, Kitty (Leiant) Tren-crom, St. Ives, Trelyon, Rosewarne Consols, Rosewall Hill, &c.

JOHN GLEDHILL AND CO., MINE AGENTS AND SHAREBROKERS, MINING OFFICES, CORN EXCHANGE, LEEDS.

MINING AGENT WANTED.—Applications for the office of HEAD CAPTAIN of the OLD WHEAL NEPTUNE MINE, MARAZION, CORNWALL, to be made to Mr. O. WANNEY, secretary to the company, 1, Crown-court, Threadneedle-street, London, E.C. CIVIL AND MINING ENGINEER is DESIROUS

of RECEIVING into his office a YOUNG GENTLEMAN as a PUPIL. A 4-3 moderate premium required.—Address, "C. B. A.," MINING JOURNAL office, 26, Fleet-street, London, E.C.

A PARTNER who can COMMAND a CAPITAL of EIGHT to TEN THOUSAND POUNDS is IMMEDIATELY REQUIRED in a BUSINESS of a FIRST-CLASS COMMERCIAL CHARACTER, wherein the returns are large and highly profitable.—Further information may be had on application by letter, addressed to Messrs. Moulton and Sow, law stationers, 37, Chancery-lane, London, W.C.

NOTICE OF REMOVAL.—In consequence of the house Mr. WillTron Arundell has Removed his office to No. 11, WATERLOO

GOOD DIVIDENDS .- MESSES. DAUNT AND CO., of 80, MENT'S LANE, LOMBARD STREET, E.C., h GOVERNMENT BONDS, yielding 8 and 9 per cent.

CHEMISTA SHEET BONDS, yielding 8 and 9 per cent. Interest, p yearly, as punctually as on Consols, and are perfectly secure. Business to the English Funds at 1-4th, Railways at ½, and Mines at 1 per cent.

A list of safe investments forwarded (gratis) on application. Investors tioned against spurious mines.

INVESTMENT.—MR. THOMAS SPARGO, STOCK, SHARE, and MINING BROKER, Nos. 274 and 225, GRESHAM HOUSE, OLD BROAD STREET, LONDON, E.C., publishes, every Wednesday, a GUIDE to BRITISH and FOREIGN MINING, and OTHER INVESTMENTS, which should be consulted by all capitalists. Post free on receipt of six stamps

LOANS ON MINING SHARES AT FIVE PER CENT.—
Shareholders can have sums of not less than £100 advanced on East Caradon, Marks
Valley, Davon Consols, North Roskkear, North Crofty, Providence, and other bone £46
undertakings.—Apply to E. Milland, Belsize-park, London, N.W.

MONEY.—CONTRACTORS and OTHERS can be ACCOMMODATED with LOANS, DISCOUNTS, &c.—Apply to Mesers. WILKINSON and Co., monetary negociators and arbitrators, &c., 25, Birchin-lane, Cornilli, London, E.C.

H E N R Y G O U L D S H A R P'S

RAILWAY, BANKING, AND MINING CIRCULAR,

(Gratis and post-free)

Should be CONSULTED by the PUBLIC before INVESTING. It contains reliable information and advice to capitalists, EEPORTS on MINES, RECORD of MARKET.

PRICES, and is the only "SAFE GUIDE" for the investment of capital.

Offices, 32, Poultry, London. Established 19 years.

Original Correspondence.

PRACTICAL MINING-SUGGESTED IMPROVEMENTS.

PRACTICAL MINING—SUGGESTED IMPROVEMENTS.

Dr. Carlyon, the vecerable physician of Truro, wrote long since of the injuries sustained by miners from the constant raising of their heavy haramers to strike the borers, in a narrow space and in a vitiated atmosphere. R. Lanyon, the late experienced surgeon of Camborne, confirmed Dr. Carlyon's views. In addition to this deterioration of the living man, there is the great expenditure of money, and yet more of time, in boring by human labour. I have dwelt on these important points, in different years, at the meetings both of the Polytechnic Society and of the Mining Association, and I communicated to the former a letter from C. Sommeiller (one of the engineers of the Mont Cenis tunnel), which reported to me the success of his very elaborate boring-machine, worked by air, which the inexhaustible water-power of the Alps enables him to compress. But in the mines of Cornwall and Devon (except in rare instances), the loss of power in forcing from the surface a current of compressed air to the ends of long levels would be very great; it might easily be done near the engine-shaft and in the sump by a connection with the pump or other rods.

I have never been sanguine as to the economical use of steam in the levels, whether directly applied, or employed to compress air. I have often suggested the introduction of small hydraulic engines, worked by pipes communicating with some of the cisterns in the shaft. If there are grave mechanical obstacles to the giving of a rapid motion to the hammer by the action of an hydraulic piston, it might be done by a very small turbinewheel, or by using the pressure of the column of water to compress air in the very spot wanted. The cost of extra coal to pump up again all the water required as a motive-power to lift the hammers 60 times per minute (even in a large mine) would be trifling. I hope that E. Crease may at length succeed by some such application of motive-power in putting his boring-machine, with improvements, which can result only fro by the rapid and cheap opening of levels, to save mines themselves from being abandoned after superficial trials, to the great damage both of lords

THE GOLD DEPOSITS OF MERIONETHSHIRE.

SIR,-I shall esteem it a favour if Messrs. Reay, Hopkins, Martin, and the other gentlemen who differ from Mr. George Henwood's opinions of the gold deposits of Merionethshire, will, in their future correspondence mention his Christian as well as his Sur-name; as I am unwilling to b Henwood's opinions or istaken for a party to the controversy. Clarence-place, Penzance, April 6. WILLIAM JORY HENWOOD.

GOLD MINING IN WALES.

coupied with the mind of a large portion of the mining public is still occupied with the question of gold quarts mining and reduction, I shall endeavour to unravel a part of the question as referring to the probabilities of profit and loss upon the speculation, and, laying it before them in as elear and fair a light as I possibly can, leave them to judge for themselves. But here I will hazard the remark, that the speculation in gold mining in Merionethshire, as at present and heretofore carried on, has been, and is,

elear and fair a light as I possibly can, leave them to judge for themselves. But here I will hazard the remark, that the speculation in gold mining in Merionethshire, as at present and heretofore carried on, has been, and is, of a nature somewhat reckless.

Among the general mass of your readers, and in most of the prospectuses usually laid before the public, the cost of production and extraction of the cres is rarely or never thought of or included. We are given a number of tons, said to contain so many ounces or pennyweights of gold per ton, and the cost at which it can be reduced from the ore, and we are left to draw the inference that the source of the profit lies wholly in the cheapness and effectiveness of the extraction of the gold, and, therefore, the profit depends entirely upon the skill of the metallurgist. When these profits are not forthcoming, all the onus is thrown upon the deficient metallurgy, and the reduction-master has to bear blame for not having extracted more gold than the ores contained, and for his expensive processes. Yet hardly a word do we ever hear of the poorness of the ore, or of the mine, or of the reckless extravagance and wholesale expenditure of time and materials in the mine department. In the meantime, we are amused with prospectuses showing assays of 1, 2, 3, 5, or 10 cas. per ton, which are really "bona fide" results from samples of half-a-dozen picked stones, carried to London for assay, and to show to the shareholders.

To put the question in a clear and practical shape, and to show how much of the cost depends on the mining, and how much on the reduction of the ore, and taking an average and moderate basis to start from, and assuming that 80 per cent. of the gold is a reasonably good produce from fine gold ores, I will suppose the case of a lode down here of an average width of 8 ft., the positive produce of which shall be 8 dwts. per ton, and the assay content 10 dwts. per ton, and that when fairly into the "heart" of the formation (having passed through the decompose

t in this man artage to works
eneral expenses (manager, mine captain, purser, repairs, timbering, driving
and sinking on unproductive ground, ropes, kibbles, pumping gear, &c.)...
ondon expenses, and incidental charges

Grand total.....Per ton 26s. 0d Note that herein is made no charge for interest of capital or for working expenses of the machinery. In the case of steam-power being applied for hauling, pumping, or stamping, the cost would be still higher. It is probable that, by judicious management and the employment of mechanical power to prepare the stone for the stamps, the reduction cost might be diminished to 2s. 6d. or 2s. 3d. per ton.

Leaving profit......Per ton 6s. 0d. Deducting interest on capital from this, there will not be a very large mining dividend of profit. I consider the above estimate of costs to be

In order to give a fair and unprejudiced idea of the cost of mining on a rge scale, I cannot do better than give a summary of what has been delarge scale, I cannot do better than give a summary of what has been done in 1861 by the St. John del Rey Mining Company at Morro Velho, where they have a lode which averages 40 ft. wide, and has even reached 64 ft. at its greatest width; where a first-class labourer or miner done they have a lode which averages 40 ft. wide, and has even reached 64 ft, at its greatest width; where a first-class labourer or miner does not cost more than 2s. 3d. to 2s. 6d. per day, and unskilled and second-class labour is infinitely cheaper than in this country; where they have an abundant and powerful supply of water. The mine is but little encumbered by water (for its size), and the probable outlay on buildings, estates, and machinery, cannot have been much less than 200,000L (of which two-thirds from profit). The mine is worked upon an enormous scale, thus affections additional facilities for cheapman. chinery, cannot have been much less than 200,000. (or which we chinds from profit). The mine is worked upon an enormous scale, thus affording additional facilities for cheapness by the judicious division of labour; and where last, not least, the servants and officers of the company are kept under a systematic, strict, and most perfect discipline, resembling more that of a crack, smart regiment than of a mercantile concern; but even taking as an example this mighty mine, with all these rarely united advantages and favourable conditions I have alluded to, and referring ourgos and navogravité continues I have a nature of the state of the section of the report of work done in 1861, we find the ring. (I will here premise that one Brazilian oitava is equal to 2 dwts.) 7:348 grs., and that 104:091 oits.=1 lb. troy):-

tal value per tou 7-30 oits. == 16 dwts. 20 grs.

The profit ditto 95,768 — 1 7 2).6

The total cost being 1l. 12s. 3\(\frac{1}{2}\)d., and the reduction cost, as appears by the same report, being only 2s. 10\(\frac{1}{2}\)d. per ton; and, deducting the latter, we have 1l. 9s. 5d. as mining costs and general charges, making the reduction cost equal to about 1-11th of the total cost.

Having thus before us the statistical returns of a large mine working under very favourable circumstances, producing and treating 1382 tons per

week from a monster lode, and costing 1l. 9s. 5d. per ton for mining and general changes, we may well ask what can we reasonably expect should e may well ask what can we reasonably expect should set per ton from the narrow hard lodes of Wales, and tion it will appear that my estimate of the probable cost per ton arge scale is considerably underrated. Only let the Welsh miners y down into the solid undisintegrated slate and quartz, and then

get fairly down into the solid undisintegrated siate and quarts, souther will find out something about the cost per ton.

But where in Merionethshire have we four lodes, small though they be, that have any chances, or probabilities of a chance, of producing 240 tons of ore containing 10 dwts. average produce per ton per week? "Where, and oh where?". Will the wise men of Merioneth (the sellers) or their foolish associates the speculators (the sellers) tell us? or must we send for a duplicate Herr Dousterswivel, to show us them with his divining rod?

and oh where?". Will the wise men of Merioneth (the sellers) or their foolish associates the speculators (the selles) tell us? or must we send for a duplicate Herr Dousterswivel, to show us them with his divining rod? Far be it from me to deny that there are gold mines in this district which are well worthy of speculative investment, and which invite the confidence of the miner, with his guiding star of Hope, although it is highly probable that there are not two mines in the district capable of complying with the demands of the preceding paragraph at the present time—some for want of proper development, and the majority because the gold is not in them. It is a fact that inearly every metalliferous quarts lode in this district contains more or less gold, but it ought by no means to follow as a necessary consequence that speculators will do well by investing in, and still less paying highly for, a property rehich may continue to yield only traces of gold, till their and their successors' pockets are emptied. Why should speculators rashly buy in shares (at a premium) in a mine, the real value of which has never been proved by a single experiment, even though it were only on 5 or 10 tons, to show whether or not it really contained gold, and, if so, if the quantity would pay, or was at least encouraging (I should consider 3 to 4 dwts. to be an encouraging result)? We have here numerous companies, which in the most insane and reckless manner possible, and before they could have arrived at even an approximate foreshadowing of an idea as to the richness or profitableness of their mining property, are squandering away their time and money in erecting expensive sets of machinery, the practical merits of which have never been subjected to a fair trial in England, and may prove a success or a failure, like too many of its predecessors. "Whilst the poor stamps to gold the firmest friend" is "shelved" until the patent mania is over, when it will again be resorted to. If, instead of spending thousands over these gimerack grin

strated that it will require the value of 61 dwts. of gold to cover the cost

where that it will require the value of of twist. Or good to cover the costs ber ton; therefore "caucat emptor."

Would-be adventurers in the Welsh gold mines, who intend to invest neavily in shares, should first secure the professional advice and service of a competent mining engineer and metallurgist to inspect the mines, and secretain whether there really is, or is not, a paying or encouraging quantity of gold in the lodes. Many mines have been sold in this district for undreds, which in reality are barely worth the "Tack-note" (value 6L) WILLIAM REAY, JUN.

Erratum.—In my letter of March 30, in the antepenuitimate paragraph, fo

GOLD IN WALES.

GOLD IN WALES.

Sir,—I really am sorry to trouble you again upon this disagreeably interesting subject, but you must allow me to say a few words, now and then, to those who write about me. Mr. Reay now takes me to task—so be it, for I expect a ray of light from him. Mr. Reay's allegations are that I am "treading on slippery ground," and that I have "ventured to affirm a statement which is physically untrue." The "slippery ground," of course, refers to glacial action. The physically untrue statement is, that 60 tons of ore cannot be found at the Cambrian Mine that does not contain more than 30 grs. of gold to the ton.

Mr. Reay says this statement is untrue, because he has treated during his stay at the Cambrian upwards of 60 tons, "none of which, after careful assay, yielded 10 grains of gold per ton of ore, and the last sample, from 20 tons, only gave per assay 1½ grs. per ton. I by no means wish to bring down upon me the wrath of Mr. Reay, but as the paragraphs of his letter touch upon one of the three interesting points under dispute just now, I must make a few remarks in my own defence.

The chief points of the gold question are, I apprehend—1. To find the

down upon me the wrath of Mr. Reay, but as the paragraphs of his letter touch upon one of the three interesting points under dispute just now, I must make a few remarks in my own defence.

The chief points of the gold question are, I apprehend—1. To find the approximate value of auriferous minerals in bulk.—2. To reduce the mineral to the finest possible state of division at the least cost, and with the greatest speed.—3. To extract the gold therefrom at the least cost. To the first of these I direct Mr. Reay's attention, for it is of some importance to the rest, though not of so much importance as may seem at first sight. Notwithstanding Mr. Reay's acknowledged skill and experience, I very respectfully beg leave to affirm that he cannot "fairly sample" 60 tons of the Cambrian auriferous minerals, and that he cannot tell by any delicate balance that 20 tons only contain 35 grs. of gold, unless he reduce the whole quantity. Spectrum analysis may detect it, but not weigh it; indeed, I have not "defied" Mr. Hopkins to procure "a sample" for 60 tons. I challenge Mr. Hopkins to "fairly sample" 60 tons of the Cambrian ore. Mr. Reay says that Mr. Hopkins can, and he proves that Mr. Hopkins can because he (Mr. Reay) has sampled, by assay, 6630 tons a month at Morro Velho. Now, even this great fact, I regret to say, does not preinduce in me any great amount of belief in its possibility. The proof cited of "the exactitude of the assays" at Morro Velho is no proof at all to me, for the difficulty in fairly sampling a bulk before treatment. Besides, Mr. Reay and I are believers in the existence of gold in other states than mechanically metallic. I have found titanium as the Cambrian. Can 60 tons be fairly sampled for that metal? It would be mock modesty in me to affect total ignorance of the Dolgelly district and its mineral veins; but I am ready to say, candidly, that I have been a very long time learning only a very little; but as at this stage of my progress Mr. Reay has been pleased to lay his hand upon the head of my

which, I taney, is a far more dimenti operation. I may be wrong; I mope that I am.

I am not surprised at Mr. Reay saying that his assay of the 20 tons "somewhat tasked the delicacy of the balance to determine." I should rather think it did; for there are a great many grains of matter in 20 tons! My reason for thinking that it is not possible to take a fair sample of a large bulk of auriferous mineral is, that the secreted gold is unequally disseminated through the mass, and the particles are of unequal weight. If this be not denied (as to Merioneth), surely it borders upon the imaginative to suppose it mechanically possible, with shovels, so to mix the bulk intimately as to render minute particles of gold equidistant, or equalised in weight per cubic inch, for the assay of 344,000,000 of grains of mineral containing only 35 grains of gold in the whole. The sampling of poorer ores does not apply.

One word upon the extraordinary heterogenous conglomeration of names of practical men. I put that list of names alphabetically, to avoid giving offence. I am sorry to differ point blank with Mr. Reay, as to the accuracy of his assay of "my views of the meaning of practical," in the gold extraction sense. He is wrong for once. Up to date, at all events, to judge by profitable results, Captain Parry is the only practical gold extractor, and "Old Berdan" and "Little Britten" are the only successful machines. I should like to see somebody and something else do better!

machines. I should like to see somebody and something else do better!
Who's the man, and what the means?
But, I think the necessity for delicate balances and assays may be su-

receded by actual practice upon 100 tons. The great consideration for e moment is not whether suriferous minerals can be "fairly sampled" in

perceded by actual practice upon 100 tons. The great consideration for the moment is not whether suriferous minerals can be "fairly sampled" in balk, nor how to reduce it to impalpable fineness. The important point is, how shall it be treated when this stage is reached? The mineral is occasionally found very rich in bunches, &e., and I believe that several modes of treatment will be found to work profitably. I have no doubt Mr. Hopkins's plan would give a greater profit at Clogau than the Berdan machine, because a large quantity of gold is in the metallic state; but I do not think it could be profitably worked at either the Cambrian or the Prince of Wales, because of the excess of sulphurets there.

Allow me a word on Mr. Evan Hopkins's letter. He does not use my name; but I am in it, by implication, as being of Mr. Mosheimer's "party," of which I do not feel very much ashamed. The first six lines of his letter are not physically, but morally, untrue. They are literally false. Mr. Mosheimer's largest works are at Garthgell; and does this Goliath, Mr. Hopkins, suppose for an instant that the ten or fifteen gentlemen connected with the Garthgell Company are "alarmed" at Mr. Mosheimer's proceedings! I am one of "Mr. Mosheimer's party," and am a promoter of these speculations. I have invested a good deal of money in them, and will belong to anybody's "party" who can extract the gold at a profit. I can extract it myself in a small way; but I want to see it extracted on a gigantic scale, by agency accustomed to large operations, such as by Hopkins, Martin, Pascoe, and Reay. We have the Gibbon sneer again, as to "committees of investigation," &c. I am a promoter of Garthgell, Tyddyglwadis, Cwmheisian, and United Dolfrwynogs Companies—all private; and I can answer for it, there is not one of the gentlemen connected with them who is in the slightest degree "alarmed," or who would feel the slightest pecuniary inconvenience if the speculations proved a total loss.

The only other companies patronising Mr. Mosheimer are th culations proved a total lo

speculations proved a total loss.

The only other companies patronising Mr. Mosheimer are the Cefn Coch and West Clogau—the former gets 1 oz. of gold per ton by Mr. Mosheimer's machines, the latter waits their erection. Under these circumstances, I affirm that Mr. Hopkins committed himself to the state-cumstances, I affirm that Mr. Hopkins committed himself to the statecumstances, I amm that Mr. Hopkins committed himself to the statement of that which is false. I very respectfully deny that Mr. Hopkins has done what he says he has at the Cambrian, or why are his blankets stowed away in the engine-house? I mean to persist in saying that he cannot do it, until I provoke him into the fact of doing it. He will then have his triumph. In the meantime, let him tell the truth. The gold shall come out. I wish Mr. Hopkins may get it. T. A. READWIN. Stretford, April 9.

AMALGAMATION AND CONCENTRATION OF GOLD-BEARING ORES.

SIR,-Several of your orrespondents having written long ac Chilian mills, crus Chilian mills, crushing by stamps, concentration of ores, and about the various modes of gold extraction in South America, and little having been aid of California, aid of California, which appears to be considered by many as quite a se-condary place as a gold-producing country, I venture to make a few re-narks on the richest gold and silver-bearing country in the world—the Nevada territory.

exp

said of California, which appears to be considered by many as quite a secondary place as a gold-producing country, I venture to make a few remarks on the richest gold and silver-bearing country in the world—the Nevada territory, I will in a few words endeavour to describe its position. If we travel from the Pacific Ocean about 150 miles towards the east, through the so-called valleys of California, we arrive at the mountains called Sierra Nevada, which rise from 8000 to 10,000 feet above the level of the sea. On the westerly side of these mountains, as far as the Pacific, is California, and at their base are the so-called Foot-hills, stretching from Oregon to Colerado, occupying a space of about 30 miles broad, and 800 long, in which are found the buried treasures of California. In former years the gold was nearly always obtained from the alluvial deposits; now, however, it is mostly extracted from the solid quartz. New mines are discovered continually, and the production of gold is increasing every month, and many mines formerly abandoned have again been taken up, and are now worked, and the gold extracted by improved machinery, affording handsome returns to the owners. If we now cross over these mountains to the eastern slope we find outselves, after a journey of less than 12 hours, from a beautifully fertile country, in a perfectly barren wilderness, and if we look down to the valley a bleak and gloomy aspect meets our eyes. This is the Nevada territory, and nothing is seen but barren rock, partly primitive and partly volcanic, intermixed with sandplains, producing only sage-brush, though here and there on the banks of the rivers may be descried a few cotton-wood trees. This desolate country, however, once the property of the Mormons, is where greater treasures in gold and silver are obtained than in any other part of the globe.

As to the formation in which the gold and silver is to be found, I have neither time nor space to give a geological description, but I may say that the granter of the property of th

so that there are now more than 1500 stamps at work in the country, crushing upwards of 1500 tons per day.

The principal lode in the territory is the Compstock or silver lode, which has yielded, and will yet yield, millions of dollars of gold and silver; it is several miles long, varies from 10 to 50 feet in width, and is of unknown depth. At the northern end is situated the great Ophir Mine, and at the southern end is the Gold-hill. The lodes on the northern end contain more silver than gold, while in those on the southern end is found more gold than silver. On the celebrated Gold-hill the ground is worth from \$2000 to \$5000 per foot; I have myself paid for some \$2000 per foot, and the ore we found contained mostly gold of about 400 to 800 fine, the remainder being silver. At first I smelted the rich ores in furnaces at San Francisco, and many tons of silver were produced by those means, but as the miners descended lower on the lode it got wider, and the ore became poorer, and would not pay for the heavy transport across the mounbecame poorer, and would not pay for the heavy transport across the mountains to California, and for the cost of the English coal, at 6l. per ton, with which I smelted it. I, therefore, erected works for the companies owning the mines, and extracted the gold and silver from the ore by the owning the mines, and extracted the gold and silver from the ore by the following processes, which are carried on up to the present day. Ore that contained much silver was crushed dry by stamps, then roasted, and then amalgamated by the Freiberg barrel process. By another method the ore was crushed dry, and then introduced, with 40 lbs. of mercury, into amalgamating pans of from 4 to 9 ft. diameter, worked into a thick paste from one to two hours, then steam or fire was applied to the bottom of the pand a caustic alkali and other chemicals introduced to free the stuff fr foreign matters as destroy amalgamation, most of the gold and silver thereby set free, and easily amalgamated. The stuff was then run off, leaving the quicksilver in the bottom of the pan for the next batch of or this was continued for a week, until the mercury was sufficiently charge with gold and silver, when it was removed in the usual manner. Anothe Another process was to crush the ore wet, and then amalgamate by the Hungarian or Austrian bowls. These bowls are about 2 feet in diameter, and hold about 40 lbs. of mercury, covering the bottom. The stuff is introduced in the centre through a wooden muller, passes over the quicksilver, and is discharged at the sides. I have put up more than a hundred of these amalgamators, and I must confess that for some ores they are as good as any that can be faund, as they work continually and require little attentions. amalgamators, and I must confess that for some ores they are as good as any that can be found, as they work continually, and require little attention, but they are not suitable for ores containing heavy sulphurets, as blende, lead, or copper, which make a crust-like deposits on the quick-silver; they then cut up the quicksilver fine, mixing it with the ore, whereby a good deal is lost in the tailings. To prevent losses of this sort I put up percussion tables of various constructions, and concentrated what was lost from the amalgamators. At the end of the tables I placed common sluiceboxes, lined with woollen blankets, which seldom paid for the outlay (not-withstanding Mr. Hopkins's opinion as to their being the only means to ne ree the

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APRIL 11, 1863.

Ave the gold); in these blankets some sulphurets of silver, and sometimes mercury, lost by carelessness of workmen, were caught. The production of gold by this process was from 80 to 85 per cent. of the gold contained in the ore. The amount of gold yielded by crushing the stuff dry, and then amalgamating in the before-mentioned pans, was from 90 to 95 per cent, and this method is, therefore, better for gold by from 6 to 10 per cent than the barrel process, but the production of silver is not so good as by roasting the ora, and using the barrel amalgamation; the loss of gold, however, in the latter process is always greater than by amalgamating in the pans. Mr. W. M. Brown considers that there is nothing so good as a Chilian mill, or edge runners. In California and the Nevada territory there have been many Chilian mills and arastras at work, but in most cases they have been thrown on one side, because they lost too much quicksilver, did not produce much gold, and also did very little work. The loss of a pound of quicksilver is not of much consequence in itself, but as it is always saturated with gold it is the loss of this that must be taken into consideration. A very great variety of machines have been used in California and the Novada territory, many of which are now abandoned, but it would take too long to describe them; I will, however, again refer to the large pans which Mr. Brown condemned on account of their being merely a modification of the arastra. It is well known that a large amount of metallic gold is found associated ac closely with other metals or sulphurets that it adheres to it, as if held together by a natural affinity, and can only be separated by force, or by the decomposition of the sulphurets, whereby the gold is set free. Much gold is also coated with carbonate and sulphate of iron, and many other substances; the consequence of which is that it will not amalgamate with mercury. I have often seen pieces of gold weighing, perhaps, as much as a half-pomy thrown into quicksilv

THE REVIVED WELSH GOLD MINING EXCITEMENT.

THE REVIVED WELSH GOLD MINING EXCITEMENT.

SIR,—My movements are so rapid, and my engagements so numerous, as to prevent my attending to the discussion which is now being raised with reference to this subject, much less to reply to the letters of the victims. However, I avail myself of a few spare moments to furnish your readers with the following general observations:—Where gold is found in paying quantities, the outcrop is the richest; and there gold is found in paying quantities, the outcrop is the richest; and the gold is easily extracted by means of ordinary labour, as shown in South America, California, Australia, &c. Capt. Parry (of the Clogau) has shown how easily gold can be extracted from quartz, even by means of very defective mechanical appliances, when the specimens are rich.

At the commencement, gold mines generally produce from 2 to 4 ozs. per ton. In a country where gold only exists here and there in a few spees, and occasionally in small rich bunches, and not in bands and veins, as in the true auriferous formations, the success necessarily depends on the discovery of rich bunches, and not on any system of extraction; as the gold can be easily extracted from rich quartz. In large auriferous bands or veins of low quality predominating in pyrites, such as the St. John del Rey, Marmato, La Baja, &c., the success depends on the system of extraction, conomy, and dispatch. At Marmato, when we used quicksilver in the trituration of the concentrated ores, the total reduction cost was from 12s. to 15s. per ton. After the introduction of the iron bottoms to increase the duty of the stamps, and a more perfect concentration, and the disuse of quicksilver, the cost per ton in the treatment has been reduced to less than & per ton, and thus enabled us to treat the refuse with much profit.

I have been asked why I back the Cambrian stamper, who has never been in a gold country? I simply do so because I have trained him to the work, as I have trained many before, and who have floored many such raw but reckless

ON THE TREATMENT OF GOLD ORES.

ON THE TREATMENT OF GOLD ORES.

Sir.,—Mr. D. Onley Hughes is labouring under a great delusion when he thinks that the very trivial fact that a piece of auriferous quartz being heated in a muffle to the melting point of gold, a portion of the metal will fly to the surface, and form globules there, has anything to do with any one of my methods of treating gold ore.

With regard to the remuneration which Mr. Hughes assumes the proprietors of the mines would give me for extracting the whole of the gold from the ores, I have to observe that I myself had the best sett in North wales—namely, Garn Mountain—and at one time had serious thoughts of working it, and likewise erecting my electric process on the neighbouring river, and I was only deterred from doing so by the number of years which, apparently, I should have to wait before that mine would be open sufficiently to supply the system with a sufficient quantity of ore to make it economical, as my estimates were based on the consumption of about 2000 tons per month. The outline of the process is, simply, a succession of large insulated vats, sunk below high water-mark, so that salt water might be used at pleasure. The ores were to be classified—that is, the pyrites or sulphurets separated from the silicious; and a strong battery-power obtained by the decomposition of the pyrites, which, with the assistance of gas, would be sufficient to decompose the quartz. I do not recommend this process in the present state of infancy of the question. What seems to be required is a suitable process to step in between the stamps and the blankets, as it appears to be determined that these methods shall be employed. It is a positive fact, whatever novices may think, that the pold ores of North Wales are totally unfit, when they leave the sieves, to be treated by the blanket process, and equally so to be treated by any mercurial process. People are misled by their notions about mercury, as mercury will do little or nothing more than a good mechanical contrivance,

and will cost six or eight times as much. Men with no just pretensions to chemical or metallurgical knowledge, put forward machines in which mercury seems to be master-man, head chemist, and, in fact, to fill the blank left by their entire ignorance on the subject. As the gentlemen connected with this question show a want of knowledge in the chemical part of it. I would recommend them to have recourse to a certain establishment in Lerwan street not may known a present called the School of

connected with this question show a want of knowledge in the chemical part of it. I would recommend them to have recourse to a certain establishment in Jermyn-street, not much known at present, called the School of Mines. There is a first-rate staff at this establishment, amongst which are good chemists, who will, I have no doubt, be ready and happy to enlighten them on the subject. It possesses many advantages not to be met with elsewhere, and only requires to be used to become of great value to the practical miner.

After 30 years of constant labour, and a vast range of observation, I know, theoretically and practically, upwards of 50 different methods of treating such ores as the Welsh, between the stamps and the blankets, by which four-fifths of the gold might be economically caught by the blanket process: but I beg to decline Mr. Hughes's offer, and to pay 5l. at the Patent Office to publish the details of any of my methods. I intend shortly to go to Australia, and have no time to spare to locate myself in Wales. As Mr. Hughes kindly offers me chemical remedies, perhaps he will be good enough, on the presumption of the non-affinity of gold for oxygen, to give me a description of the process by which quartz might be compelled to combine with another equivalent of oxygen, or as much as would reader it a chemical impossibility that the gold should have any affinity for it whatever; and at the same time he might suggest a name for the new arangement of silicon and oxygen.

John Calvert, C.E. nt of silicon and oxygen. JOHN CALVERT, C.E.

GOLD IN WALES.

GOLD IN WALES.

Sir,—It is possible that Mr. Calvert may not be tempted to divulge his process, even by the handsome way in which Mr. D. O. Hughes offers to deal with the publication. He may have views with which the considerations alleged by Mr. Hughes have no relation; and certainly we cannot dispute his right to be the sole judge of the conditions upon which he will dispose of his invention, which it appears from his last letter to the Journal he does not desire to withhold. At all events, there seems to me but little use in crying "the grapes are sour;" but as Mr. Hughes is possessed of an outline of the process in question sufficiently distinct at least to enable him to form a very decided judgment upon its principle, if he would really do us a service he will tell us what he knows of it.

The pretty little experiment, however, by which gold was forced in globules to the surface, and which Mr. Hughes mentions as Mr. Calvert's "electro process of extracting gold," Mr. Calvert himself has, as I am informed, always declared to be unsuitable to large metallurgical operations. April 8.

GOLD MINING IN WALES.

GOLD MINING IN WALES.

GOLD MINING IN WALES.

Sir,—"The murder is now out." The reason why Mr. Hopkins's process is not put into practice at the Cambrian Consols is that "Capt. Martin has not yet been able to get stuff of sufficient value to treat"—not even, as we may gather from the former gentleman's letter of March 31, "stuff containing only 40 grs. per ton." It appears that all that has as yet been proved about the mines is that "a few small patches of quartz and slate containing gold were found in the Cambrian Mines."

Compare this with the magnificent statements in the prospectus, as advertised—"Rich visible gold has been broken there within the last few days." "The company will be able to stamp at the rate of 70 to 100 tons of quartz per week within one month from its formation;" and "The company is thus able to commence active operations at once." I have put the last sentences in italics, because they are obviously calculated to make the public believe that geld extraction could be commenced at once, instead of it being a matter of uncertainty, as it is, whether the quartz was to be had. Compare the above statements and promises of the promoters with the facts now ascertained, and I ask—Was that treating the public honestly or fairly? Or was there any colour of a reason why 25,000l. in cash, and a similar amount in shares, upon the immediate disposal of which no restriction was placed—the enormous sum of 50,000l. altogether—should be paid for liberty to adventure money in mining there? The writer would be very sorry indeed to have been a party to such a representation to the public.—April 7.

P.S.—Some light is now thrown upon the remarkable absence in the Journal of reports of operations at the Cambrian Consols Mines by Capt. Martin.

GOLD MINING IN WALES.

GOLD MINING IN WALES.

GOLD MINING IN WALES.

Sire,—Induced by the many flourishing reports I heard about the existence of gold in Wales, I bought some shares in the Vigra and Clogau Mines, with the expectation of realising something out of it. At the last annual meeting Mr. Martin, the Chairman, stated that the stamps would be soon ready, and they would crush 30 tons per day. In order to verify this statement, will Mr. Martin be good enough to accomplish the promised result? I went to Dolgelly to satisfy myself what was going on, and on personal inspection, I found that the stamps are nearly ready, but they appear the oldest and poorest contrivances of any in the whole district. I saked the captain what was next to be done? He said he did not know. I then asked him why they did not put up the same machinery as the other mines? I had seen at the Garthgell Mine a very promising amalgamating machine; I do not know much about it myself, but my companion, who had seen in California for some years, said he had seen many similar machines there, and heard them spoken of very highly. I heard also that many other mines in the district have adopted the same machines; why, hen, does not the Clogau have them, or something similar? I heard in Dolgelly, privately, that Capt. Parry opposes everything that is offered, and he himself is not considered competent to advise any better plan than others; if that be in reality so, why do not the directors employ some experienced metallurgist, and not wait for mine agents, whose business is to look after the men, and not after chemical operations, of which they, perhaps, know nothing? I heard that Mr. Moshlemer, who is engineer to several companies in Wales, has even offered to build six amalgamators at the Clogau Works at his own expense, but Capt. Parry opposed in such a way that he finally declined doing so, and actually sold the machines to another company. Why do not the parties interested look into such matters, and not allow fancy notions to be carried out at the expense of shareholders? If Mr. Marti

EXTRACTION OF GOLD AND REDUCTION OF QUARTZ BY A DRY WAY.

BY A DRY WAY.

Sir,—I had hoped, considering that so many gold mines were opening in England, that the process which I described in my letters about twelve months since would have been honoured with some attention, if it had only been to attempt to prove its worthlessness. As there are, doubtless, many mines yet to be opened, and in which a cheap and expeditious process of extracting the precious metal would be a desideratum, you will, perhaps, permit me again to lay my proposition before your readers, and to ask them, should they consider it practically useful, to give it their countenance by pointing out its advantages through your Journal, or if they discover any defect to point it out, that I may attempt to devise a remedy. In Mexico the crushed ore is simply saturated with water, and mercury is intimately mixed with it, by having the whole mass trodden by mules, the compound being allowed to remain for weeks before the amalgam is separated from the matrix. In California and the Australias a contrary system is pursued, no time whatever being allowed for the amalgamation to be effected. The quartz is crushed with stampers, while a current of water sufficiently strong to overcome the specific gravity of the quartz and sulphurets that abound in it is, by its mechanical action, caused to convey it as rapidly as it is reduced to a fine powder into Chilian mills, and thence over shakingtables; or it is simply conveyed from the stampers over ripples with mercury boxes attached, and then blankets, where that gold only is deposited which is of sufficient weight to overcome the force of the water, fine gold

cury boxes attached, and then blankets, where that gold only is deposited which is of sufficient weight to overcome the force of the water, fine gold being saved only by chance, and in infinitesimal quantities.

Having described the existing systems of amalgamation, allow me now to discuss the views I entertain respecting them, which necessitates the introduction of an entirely different course of action. Mercury has no magnetic attraction for gold, and it is very generally covered with a film of sufficient tenacity to protect even clean gold when pressed upon its surface. Such being the case, is it to be wondered at that, with the very crude method of amalgamation described herein as in general use, the bulk of the fine gold should be lost, more especially when it is considered the crude method of amalgamation described herein as in general use, the bulk of the fine gold should be lost, more especially when it is considered the auriferous particles are so infinitesimally small that even the film of water which surrounds them must in many cases be thicker than their own diameter? Indeed, the investigation I have made into the subject has fully satisfied me that by far the largest proportion of gold existing in either alluvial or quartz is so fine that even the film of air which must necessarily exist between one particle and another in a bulk of this fine gold, and the actual point of apparent contact of such a bulk laid on a body of mercury, interposes a sufficient barrier to prevent amalgamation. This being admitted, it must also be a necessary consequence that dampness on its surface must add another shield to its protection.

The above hypothesis being admitted, it does not require a great amount of consideration for anyone to feel convinced that the hurry-scurry style

of rushing the matrix through the mechanical process, by means of a strong current of water, must take the fine gold alone with it, and that the thick muddy state of the water tends to keep the fine gold in suspension, assisting its escape. Another difficulty to overcome in saving fine gold is the action of the sulphurets. Generally speaking the quartz in this colony abounds in minerals, which naturally require a strong current of water to clear them from the amalgamating apparatus. A centrifugal action is set up by the current coming into contact with the various angles of the apparatus, thus operating in its turn upon the metallic sands, which, by their specific gravity, have a natural tendency to collect the fine gold. More attention has recently been paid to the collection of the waste sulphurets, but the methods applied in all instances are of the most crude nature. I am also of opinion that calcining the quartz for the purpose of liberating the sulphur and areenic, and rendering the quartz more easily friable, is a great mistake, and is the means of forming a film on the gold, and rendering the surface of it a repellant to mercury, by which the loss of it is increased in the subsequent processes of amalgamation. By calcining a film is formed on the surface of the minutest particle of gold, and unless this crust is broken by abrasion previous to coming in contact with mercury, amalgamation cannot ensue; and I feel satisfied that I am fully justified in stating for every onnee of gold saved in the colony there is one to two ounces lost. I could state fact after fact in support of my assertion, but the limits of a letter will not admit of it.

That much may be done in the way of improvement, but in mechanic

stating for every onnee or gold saved in the colony there is one to two ounces lost. I could state fact after fact in support of my assertion, but the limits of a letter will not admit of it.

That much may be done in the way of improvement, both in mechanical appliances and manipulation, will be admitted, and the process by which I propose to overcome the difficulties consists simply in crushing the quartz in its uncalcined or raw state, and amalgamating it with mercury; also, while dry, by trituration. The quartz rocks of any size are first thrown into a machine, similarly constructed to a stone-breaking machine, which will reduce with six-horse power from 4 to 5 tons per hour to the size of coarse gravel. The gravel is then conveyed to a triturating or grinding mill, of similar construction to an arastra, where it is ground in conjunction with the mercury to a fine powder. The analgamation is thus rapidly effected, the mercury being thoroughly incorporated with the matrix, and divided into infinitesimal particles. It is now necessary to convey the dry amalgated material to a cylindrical paddling-mill, in which sufficient water only is used to form a pulp, where by the assistance of heat the mercury combines again. It then passes to a centrifugal separating-machine, where the debris is finally washed away, and the mercury and amalgam is secured. In the Victorian department of the recent International Exhibition, in London, I exhibited a case containing specimens of calcined and raw quarts,

combines again. It then passes to a centrifugal separating-machine, where the debris is finally washed away, and the mercury and amalgam is secured. In the Victorian department of the recent International Exhibition, in London, I exhibited a case containing specimens of calcined and raw quarts, gold sulphurets, &c., illustrative of the subject. There were several specimens illustrative of the yields of fine gold obtained by various principles of amalgamation, which, I think, those of your readers who noticed them will admit were interesting. There was a specimen of the description of quartz operated upon, it being composed alternately of thin layers of silica and clay-slate, highly permeated with arsenical pyrites, and very rich for fine gold. The mine is worked at Steiglitz, and the quartz returns, after calcination by the ordinary process of reduction and amalgamation, about 6 ozs. of gold to the ton. That I should have a fair basis from which to start, a quantity of the same parcel of quartz as this specimen was reduced in its natural state to a very fine powder, and from that bulk the following results were obtained:—By dry assay (smelting), 122 ozs. of gold to the ton; by my dry process of mercurial amalgamation, 105 ozs. 11 dwts. 16 grs. of gold per ton. The concluding results were obtained by the same bulk of powder after being calcined. By the same process of dry mercurial amalgamation I obtained 75 ozs. 16 dwts. 16 grs. per ton, and by the Mexican process 56 ozs. 11 dwts. 16 grs. of gold per ton.

These results naturally show that dry mercurial amalgamation by trituration effectually permeates the mercury throughout the crushed quartz, bringing it into intimate connection with the fine gold, saving a much larger percentage; that the subphurets are rendered less obstructive by the dry process, that the protection afforded to fine gold by water is avoided, and that calcination is avoided, the effect of which is to coat the gold with a hard skin that acts as a repellant to mercury until broken. The banefu

TREATMENT OF POOR COPPER ORES.

TREATMENT OF POOR COPPER ORES.

Sir,—Permit me to state, with reference to the report of Mr. Jonathan Down, referred to in the letter of Mr. George Henwood, in last week's Journal, that Mr. Down's conclusions are as illogical and unwarranted as they are calculated to do injury to the Gourock Mine, and to prevent the rendering marketable of much of the useless ore produced in our copper mines. I say—Firstly, that it does not follow that, because there are substances other than copper soluble in hydrochloric acid present in the ore, therefore the ore cannot be profitably treated by the wet way. Secondly, that although he may have ascertained from his analyses that he does not know how to treat the Gourock ores profitably, his assays (if I may so term them) inserted in the report, prove nothing whatever. And, thirdly, that if he will state through your Journal what the ores contain, and the price at which the acid can be delivered at the mine, he will find plenty of your correspondents who could enlighten him on the subject.

Mine agents should be extremely careful in stating that chemical processes, with which they are but slightly acquainted, cannot be profitably carried on, and Mr. Henwood is certainly entitled to the thanks of the whole mining community, and especially of the adventurers in poor mines, for affording an opportunity of preventing the propagation of such erroneous notions as those contained in Mr. Down's report.

MASONES OUR DEPURENCE PROCESS.

MASON'S ORE-REDUCING PROCESS.

MASON'S ORE-REDUCING PROCESS.

Sira,—There is considerable difficulty in maintaining a discussion between two persons, one of whom resides in London and the other here; and it was only since the departure of the last mail that I came across the following letter, which appeared in the Journal of Sept. 27. As that letter has, probably, by this time been forgotten by most of your readers, and as I ought hardly to leave it unreplied to, may I request the favour of your republishing it; my plea being that I am not responsible for the distance between London and Adelaide, and that the subject is one of increasing importance to the mining interest:—

MASON'S ORE-REDUCING PROCESS.—SIR: This process, claimed for Mr. Rodda by his

importance to the mining interest:—

Mason's Ore-Reductor Process.—Sir: This process, claimed for Mr. Rodda by this agent, Mr. Slimett, in the Mining Journal of August 23, was, as I previously informed him, patented in Spain, and worked on a large scale, about seven years ago, by the Castilian Mining Company, at Hindobro, near Burgos. This clear and distinct assertion, made in the letter referred to by Mr. Slanett, he has thought proper to forget. I beg leave to remind him of this point, and after a fair trial the process was abandoned as unsuccessful. Mr. Sinnett is, apparently, very grateful, and thankful for small mercles. He thanks a friend of Mr. Rodda for his letter, which appeared to me scarcely worth notice. Your readers interested in the reduction of poor ores may forget, through the lapse of time, the points at issue between Mr. Sinnett and myself.—I. I stated that, besides the process being aiready old, tried, and abandoned, that it was chemically and physically impossible, and I explained the reasons upon which I based my opinion.—2. I also called attention to the fact that no results beyond crucible experiments had been obtained, and we have none yet. If experiments have been tried at the Tatais Works "with furnace and appliances," where are the results? How many tons of ore were corrated upon? What was the produce of the over? How much first, labour, Sec., did 2. I also called attention to the fact that no results ecyond crucible experiments and been obtained, and we have none yet. If experiments have been tried at the Yatala Works "with furnace and appliances," where are the results? How many tons of ore were operated upon? What was the produce of the cre? How much fuel, labour, &c., did it cost? What was the weight and produce of the stamped and washed metal? What was the produce of the waste? These are the questions practical men ask and require to be answered. The process, I understood, was for poor ores; and yet the only result Mr. Sinnett adduces of the success of rich carbonate, weighing 8 ozs., and from the previous sentence I infer four pieces of rich carbonate, weighing 8 ozs., and from the previous sentence I infer four pieces of rich carbonate, weighing 8 ozs., and from the previous sentence I infer four pieces of rich carbonate ore melted with charcoal produces 50 per cent. of metallic copper I True, Mr. Sinnett, the discoveries of the son exceed those of the father, even more than Watt ceitpses Hero.

I am much interested in the economical reduction of poor copper ores; but these results do not satisfy me. What I want to know is, was all the copper reduced to the metallic state, and what was the expenditure of charcoal inside the crucible and fael outside? We know that Napier's process has now been in use at the Burra Burra Mine for the isst twelve or fourteen years, and that the principle of that process is to reduce the copper from carbonate and oxide ores by one funion. This is accomplished by mixing a small proportion of coal, or other carbonaceous matter, with the ore, and feating in a common reverbenatory furnace. When a judicious mixture of orea has been stended to, pigs of smetal it for the refunery can be produced by an expenditure of fuel on 1 ton of coal to 2 tons of ore. This has been done before Mr. Rodde's eyes for the last twelve or fourteen years, and then the principle of that process is to reduce the copper form carbonate and oxide ore

cre. That did not suit Mr. Sinnett; who, in the capacity of agent-general for the modern Watt, made a blandering personal stack cos one of your most valuable correspondents, and has vidently arreated his pen, much to the regret of—A Cheker, &c.

To begin with the end of this letter, I do not know who your correspondent is, and have no desire to be "personal" to him. Whether I "blundered" I am not the fit judge, but "A Chemist" may at once have his "regret" dissipated. He has only not heard from me earlier because we live on opposite sides of the earth. I now think his letter only needs to be replied to by me by my re-stating his propositions in their order, only in slightly varied language:—

1. The process has been worked on a large scale at Hindobro, near Burgos, and is old, tried, and abandoned.

2. It is chemically and physically impossible. [large scale.

3. "A Chemist" wants to know what it has cost to carry it out on a These contradictory propositions need no criticism, and Mr. Rodda writes to you by this mail, giving you results recently obtained at the new works erected at the New Cornwall Mine, near Wallaroo. I will only add that Mr. Rodda's process is making progress more slowly than I could wish, but steadily, and without one check or reverse. Our results are even more satisfactory than was anticipated; and when the process is sufficiently firmly setabilished here. Leve at two carry day to sid! A Chemist "A Chemist" A Chemist "A Chemist" and when the process is sufficiently firmly setabilished here Leve and the setabilished as the side of the convenience of the convenien satisfactory than was anticipated; and when the process is sufficiently firmly established here I hope at some early day to aid in convincing "A Chemist and Metallurgist" of his errors on his own ground, and by arguments more conclusive than can be contained in letters. FRED. SINNETT. Adelaide, South Australia.

SPURIOUS PATENTS.

Sir.—I would not deem worthy of notice the communication of the "Discoverer," that magnesia when mixed with gutta percha would render it white, and fitted for shirt collars and other articles of dress; but as it involves a question of veracity, I feel bound to refute so transparent a misstatement of facts.

About the middle of November last, Mr. Spencer, a manufacturer of ma-About the middle of November last, Mr. Spencer, a manufacturer of ma-chinery for the production of paper collars, called on me, he knowing that I had for many years devoted myself to the improvement in the treatment of paper materials. The subject of Dr. Cattell's refined white gutta percha was discussed, and I gave Mr. Spencer at that time a letter to Dr. Cattell, Now, as the magnesian gutta percha patent was only taken out on Jan. 23 last, or more than two months subsequent, what was there to prevent me from taking out a patent, had I desired to foolishly throw away my money? I never dreamed at any time of taking out a patent for the mere application of another's invention.

tion of another's invention.

It is very singular that the "Discoverer," in his note to you, studiously avoids all allusion to the "magnesia;" how, then, did he get that important idea, or what is its use, if I did not in sheer humour suggest it? This wonderful specimen of a specification reads thus—its sense I do not pretend to explain:—"Having treated gutta percha, or India-rubber, so as to bring the same to a white state, which I can do, for instance, by the use of suggesting, or by the process known as Dr. Cartall's provided Latin when magnesia, or by the process known as Dr. Cattell's purified India-rubber,

or gutta percha."
You, Mr. Editor, or those readers who know me, will never suppose that I could be guilty of such an act of folly as to desire to become associated with a shirt-collar patent made by the addition of magnesia to gutta percha or India-rubber. Dr. Cattell, moreover, never refers to India-rubber, but

or India-rubber. Dr. Cattell, moreover, never refers to India-rubber, but merely confines himself to the treatment of gutta percha.

There are certain assertions so supremely ridiculous as to defy refutation, they are perfectly invulnerable—this is one of them; to treat the matter seriously seems to be an unnecessary expenditure of one's time and talent. I am, however, more auxious in this instance to do so, in order to expose the artful dodge of the agents, who, in order to divert attention from their own incapacity in drawing up such a monatoruals about a should be a second or the expose the artful dodge of the agents, who, in order to divert attention from their own incapacity in drawing up such a monstrously absurd specification, force an unwilling, simple-minded victim into the arena. It reminds me of the cuttle fish, which when hard pressed by its adversary emits a dark, inky, murky liquor, which so clouds the water in its immediate vicinity that it makes an easy escape in a direction very different from that which its opponent supposes. So these astute patent agents create a diversion. These artful tactics may be very successful with those who take all the fish that come to the net, but they should have weighed the consequences before further agitating this subject.

All I said in my former article on the Patent Laws in this connection was strictly, and to the very letter, correct. If further evidence is required, it will be most easy for me to transmit you Mr. Spencer's letter, and also that to Dr. Cattell.

Beta House, Alpha-road, N.W., April 6.

Beta House, Alpha-road, N.W., April 6.

OPEN SHAFTS.

OPEN SHAFTS.

Sir,—The great evil with which mining companies and owners of the land in which mining is carried on are chargeable is the dangerous state in which abandoned shafts are left, being, for the most part, unprotected. This subject has been so frequently discussed in the Journal that I have little hope of any remedy for the evil, except from legislation. I trust that some Cornish Member of Parliament will feel it to be a duty to humanity to endeavour to obtain an Act of Parliament for its extinction. The number of deaths from this same is very great; the names of the sufferers would fill columns of your paper. Two days ago, having been requested to go over a mine sattnear Hewas. I saw, on a stone post, erected on a small mound close to a shaft, three Roman capitals (initials), with mounth and year beneath. On enquiry what the thing meant, I terrat that a poor man, in crossing the common on his way home in a stormy and dark night, fell into the shaft, and was found dead four days efterwards. The stone is a monument of that calamity. The shaft is 17 fms. deep; but not a bone of the man was broken. He probably died from cold or starvation. Sounds were heard two or three days after the accident by a man and woman possing near the pit; but they did not know that they proceeded thence. When they heard that the man was missing they mentioned the circumstance, and the deceased was drawn up. If, instead of being a poor man, he had been a nobleman, it is probable that the evil of which I complain would have been considered in high quarters, and rectified. "God is no respector of persons"—the life of the rich and poor is the same with him. I am aware that in most mining leases the lease is made to convenant to fonce all uncovered shafts, but the covenant is rarely fulfilled—it is a dead letter, like some other parts of the lease. The leases are permitted to work, and vacate the works, without any supervision from the lord as to this particular, and so the evil remains. The fault is to be charged parily on the age

ON "CALLING" MINES.

ON "CALLING" MINES.

Sir,—If I may judge by the number of letters I have received since my last one appeared in your Journal, I may truly say that that letter has created quite a sensation amongst adventurers in calling mines.

Several correspondents hope I will persevere "until every calling mine is stopped," or, as one says, "until all these insidious ruination schemes are gone to smash." Others mention mines which are making regular twe and three-monthly calls of 3s. or 4s., and ask "why they cannot be worked as chesply as others, which are making only 1s. calls;" and others, again, call my attention to mines which are quite neglected by the market, and which they are assured will shortly commence dividends, and, therefore, ought, in their opinion, to be readily salested. One of the latter class of speculators sends me a list of the mines he refers to, and which he has been informed are about to commone dividends. Innocent adventurer like wishes me to call the attention of the public to them, and particularly the most prominent of the brokers. Were I to even name them, I feur a saille on the brokers' countenances would be the only result. Dividends, indeed! I wish he may get them.

Most of my correspondents, however, are astonished that mines keep on making calls; and some of them even imagine that one or time calls ought to be enough to bring the

a of them n imagine that one or two calls ought to be enough to bring the

and some of them even imagine that one or two calls ought to be enough to bring the mines into a dividend state.

Now, I think the sconer they are undeceived in this respect the better it will be for them, and I, therefore, now tell them that it is not more than one mine in a thousand that commence dividends until calls have continued for years, and this with such an astonishing regularity, as not to be very agrecable to the adventurers.

It is the greatest folly for anyone to go into a "calling mine, with the intention of holding on until the mine pays dividends or is abandoned, unless he can afford to lose every shilling he lays out on it. If he intends to hold on for 12 months only, its him ascertain how frequently calls are made, and the amount of them, and if he cannot afford to lose at least one-half of the money he will have to pay in that time, let him not touch calling mines, as calls will come as surely and as regularly as quarier-day, and is many cases more frequently.

As the following is, no doubt, the case of bundreds, I will relate what a correspondent writes me. He tells me be bought 100 shares in a mine, at 5s. each, and although he was led to believe a call would be required in a short time after his purchase was made,

many cases more frequently.

As the following is, no doubt, the case of bundreds, I will relate what a correspondent writes me. He tells me be bought 100 shares in a mine, at 5s, each, and although he was led to believe a call would be required in a short time after his purchase was made, he had no idea they would be required every two months: that he was quite able and willing to pay the first call, or even one more, but both sunwilling and unable to continue paying them; and that he was, therefore, compelled to sell his shares at 50 per cent. loss, and that any seculators as these from going into anch mines at 1 term "the highly specialitive class" has been the object of many of my letters, and I now tell them that hise out of ten of calling mines are of that speculative class, and that any advanturer who goes into them should be prepared to lose very considerably should the mine turn out a failure. I, therefore, say beware. Can you afrort to lose your money? for, if not, let me beg of you not to touch these highly speculative mines; the not the lowness of the price tempt you, as the calls will also double and irebit the price; rather confine your operations to dividens mines, and to those which are approaching the dividend state, as, with a judicious selection, the risk is reduced to a mere nothing, for although they may, from market operations, decline in price for a time, they will in all probability recover themselves: but, as I have repeatedly advised, let half a dozen or a dozen he selected, and on no account conflac your operations to one miss only.

It is nonsense for adventurers to suppose that mines which are selling at a few shillings a share can be immediately worked at a profit, or even to pay expenses. It is also nonsense to keep down the expenses of a mine in the underground department purposely to make the calls moderates. In whatever part of the mine there is a chance of making

discoveries there ought men to be working, as the surface expenses are just the same whether much or little work is done underground.

It would, of course, be possible to work any mine so as to require only a quarterly call of its, a share, but this would be bad policy. Whenever I go into a calling mine, I invariably advocate its being worked with the utmost vigour; we thus discover in guarter the time we otherwise should whether the mine is valuable or calveless.

As to my correspondents who wish me to persevere until I have succeeded in preventing speculators from going into calling mines, and thus cause them all to be stopped, I can only say I sincerely hope that my letters will not have any such effect.

Calling mines are necessary, provided there are fair prospects of success, but let them be confined to the right class of speculators—to men who can afford a lose their money.

Let poor men speculate in them as they would in a lottery—let them hope to draw a prize, but not be east down if they draw a blank; and if they cannot afford to lose the money the ticket may cost, let them not meddle with it. The prizes bear but a sorry proportion to the blanks, but when a prize does come it is something considerable—Devon Consols and East Caradon to wit.

Let them never forget that a mine cannot be worked without money, and that if ore enough is not raised to pay the expenses of working, calls must be made to pay the difference. Also that in calling mines the whole of the money is not spent in raising the little ore they may send to the surface, obtain endeavouring to make discoveries, and that although the shares in a mine may this day be worth 10s. each, and that in six months the possessor of the charce had the chances of any discoveries that might have been made.

To those adventurers who do not care about such highly speculative stock, I recommend Pendern Consols, Wheal Univ, Wheal Grenville, Wheal Harriert, and North Downs.—Addison-terrace, Rensington.

WHEAL HARRIETT, AND THE "CAUTIOUS MAN."

WHEAL HARRIETT, AND THE "CAUTIOUS MAN."

Sir,—The "Cautious Man" has proved, to "his own satisfaction," that a speculator in Pendeens and Harrietts "may retire to bed," "and sleep comfortably." He tells us, too, "speculators in calling mines can form no idea of the relief one feels when they put their money into such mines as Pendeen and Harriett," &c.; by which, I suppose, he means to tell us these mines will be free from calls for the future; and, perhaps, "where ignorance is biles, "its folly to be wise." But, will the "Cautious Man" guarantee there will not be a call in Harriett before "this year is out." Of Pendeen and its merits I am in a state of ignorance; but having had my sleep very much disturbed through a high-priced attachment to that fickle jade, Miss Harriett, I have been let into a few secrets behind the curtains which may not have failen to the lot of a "Cautious Man." Hough I am quite willing and ready to transfer over to him all interest in her future favours and prospects. There was a vast fourish of trungets at the last meeting of her admirers—the beauties of her complexion were wonderfully extolled by one of Madame Rachel's persuaston, and by her "captain;" the former holding something like 600 shares, and the captain a good interest in her. A share in her favours had gone up from 30s. to 61, and there was no telling how high they were to go in the general admiration excited. Well, shall I confess that in my enthusiam I purchased 50 shares, at 61, aplece, and from that moment lost my repose and my sieep, notwithstanding what the "Cautious Man" any sign and specific state of the principle, I suppose, that too much familiarity breeds contempt, every day is saw a golden charm, at least, vanish from the principle, of an examination of the books of the company, by a friend in London, showed us that the large holder, committeeman, and extoller of my charmer had about sold out at the high prices, and that the captain also had sold out I Judge, then, of my indignation and sicepiess nights, and how

MINING IN IRELAND.

respondent to have the lady thoroughly inspected, and make a lew and carries as to acharacter in the neighbourhood, before he again flourishes his pen in her favour.

MINING IN IRELAND.

SIR,—Seeing that at the present time the notice of the mining public is being drawn to the capabilities and reasonable expectations of the county of Cork, I venture to offer a few comments on the subject. My attention has been for some time called to this district, and, as I have recently had the opportunity of tracing its lodes, of viewing the surface work of its mines, and also of going underground, I thought a few remarks might be acceptable. The prevailing rock is killas; elvan courses and strong quartz lodes are traccable in an easterly and westerly direction. There did not come to my notice any large quantity of gossan or mundic, though a little of each is occasionally met with. Copper ors in several places crop out at surface, and, in a walk along the beach not far from the Cappagh Mine, several lodes from which copper has been taken can be traced in the cilifs. Malachite is also to be picked up at low water. I could not banish from my mind the advantages this district affords; they seem to me principally the following:

—1. The or is generally of a high percentage.—2. Labour is chaper than in any other mining district, for the Irish (and especially those working with Cornish minus pare well follows skirts the coast. In no place that I noticed was it more than three miles from a good natural harbour.—4. Coals from South Wales are cheep, and small cargoes can be taken on the return journey; whilst materials of all kinds are readily procurable from Cornwall. I cannot refrain from adding to these that the Irish are grateful for this kind of labour; and when anyone comes away from the district he mats feel that the Englishman has a south-western promontory abounding in mineral riches, whilst to the Englishman has a south-western promontory abounding in mineral riches, whilst to the Englishman has a south-western promontory a

OLD WHEAL NEPTUNE.

SIR,-Being cognisant of the affairs of the Neptune Mining Company, Sin,—Being cognisant of the affairs of the Neptune Mining Company, I think I can satisfy your correspondent, who says the directors were acting unfairly in making the recent call. The sum expended on the mine up to this date, including 1500L paid for the leases, is about 9000L. The estimate of what will still be required to bring the mine into a dividend-paying state is 3500L; but against this will come any returns of ore that may be made. The cash in hand is 350L, and the sum due on calls 1050L—together, 1400L; deduct from this 350L for total liabilities, there is a balance of 1950L. To this must be added the uncalled payments on the new shares that have been taken up (2500L), which brings up the present ravailable assets of the company to 3550L. There (25001.), which brings up the present available assets of the company to 35801. There are 2500 of the new shares yet to be allotted, which will yield 65001, and will more than meet any possible onliny on the mine. Such is the state of the funds, and I think you correspondent will acknowledge that few companies can show a better balance-sheet.

meet any possible outliny on the mine. Such is the state of the funds, and I think your correspondent will acknowledge that few companies can show a better balance-sheet. With regard to your correspondent's remarks as to the directors making the call so as to relieve themselves, I beg to say that such is impossible. The directors hold three-fourths of the shares, old and new, of the company, so that they have to pay three-fourths of all the calls that are made. Under these circumstances, the shareholders may be satisfied that the directors will make no calls that are not absolutely necessary. I hope your correspondent will have the fairness to acknowledge the unjustness of his remarks. London, April 9.

NOTICE ALLY CONTRACTS.

DUN MOUNTAIN COMPANY.

to produce a handsome and speedy dividend. It is true that the directors have been obliged to borrow 75001, at a heavy sacrifice, rendered necessary by the then critical state of matters, and which the shareholders sanctioned; but the sale of 1500 tons of chrome will clear that of at any time. The management of the company has been excellent and cheap, for the directors have deferred receiving their fees for many years until they were dividing a good dividend (a rare instance); and the secretary is indefatigable, and by no means overpaid for the trouble he takes and has taken from the commencement—now ten years ago. And yet, with all these certain elements of success and handsome profit, some shareholders have been so silly as to sell at 10s, per share. There is no accounting for the folly of some people; but when the shares are at 21, each they will see their folly. Meanwhile I lay these facts before them; and, as they are capable of easy verification, I strongly advise every shareholder not in need to keep his shares in his strong box for the present.—April 7.

Version Sar.

Meetings of Mining Companies.

WHEAL LUDCOTT AND WREY CONSOLS MINING COMPANY.

WHEAL LUDCOTT AND WREY CONSOLS MINING COMPANY.

A general meeting of adventurers was held on the mine, on Thursday,
Mr. J. C. Isaacs in the chair.

The usual preliminaries were disposed of, and the statement of accounts
was submitted, which showed that the total receipts for ores sold ending
April 8 was 57771. 16s. 6d., whilst the total cost for November, December,
and January was 42412. 14s. 4d.: leaving profit, 15361. 2s. 2d.

After the accounts had been read, the Charman said it would probably be expected of him to make a few remarks on the accounts that had been read, explanatory of the circumstances in which the mine was now placed. Reports had been
circulated that this mine was behind in its costs; this was quite true, but the fact had
never been concealed; it had not arisen the last two years, but had been like it for
years. Three months' cost had gone against three months' ore, the difference being that
whilst November, December, and January, rebruary, and March, and sold (the greeter
part) in April; thus the balance as shown from the accounts, 24907. 11s. 8d., was not an
available balance, as the money had not been received for the ores sold this month, and
would not for a week or two, when the purser would receive bills which the bankers
would discount. It would be seen that during the quarter the assets had been more
than the debits by 15367, 2s. 2d., but seeing the state of the last account, this money
than the debits by 15367, 2s. 2d., but seeing the state of the last account, this money
than the debits by 15367, 2s. 2d., but seeing the state of the last account, this money
than the debits by 15367 to the guilden the received; and before dealing with it at
all, perhaps the meeting would like to hear Captain Knapp's report of the mine, and its
future prospects, so as to guide them in their decision.

Capt. Knapp said it was true the silver had failen off at the 84, but a discovery of
silver-lead ore had been made in the back of the 90 fm. level, from which he hoped
to raise several tons during t

rent three months, and they had also been increased by the bunkers' charges for interest and commission.

Mr. E. Cooke stated that he was quite aware that a prejudicial effect was caused by the sales of ore being credited so closely. He represented a considerable interest in the undertaking, and he should prefer seeing a proportion of the profits earned during the past quarter carried forward in order to partly, if not entirely, obviate for the future such a large amount being paid to the bankers for interest and commission; and with that view he would suggest that upon the present occasion a dividend of 2s. 6d. per share should be declared, which would leave an undivided profit carried forward of 934.

The accounts having been passed and allowed, upon the proposition of Mr. E. Cooks, seconded by Mr. Sharesey, a dividend of 2s. 6d. are share we declared.

to 1936.

secounts having been passed and allowed, upon the proposition of Mr. E. Cooks,
d by Mr. Samorn, a dividend of 2s. 6d. per share was declared.

seual compilmentary votes terminated the proceedings.

NORTH TRESKERBY MINING COMPANY.

A general meeting of adventurers was held at the account-house on the ine, on Tuesday,—Mr. B. Matthews (the purser) in the chair. The following statement of accounts was read:—

Leaving credit balance £ 928 14 4 The CHAIRMAN said he had much pleasure in reading the above accounts, as every liss big was charged up to the end of February, whilst the ores raised in January an February were not residued, but would come to the credit of their next account. Budopting this mode of finance, their property was placed in a position second to none i he county.

sdopting this mode of finance, their property was placed in a position second to mone in the county.

The accounts were then unanimously passed, and a dividend declared of 1s. 6d. per share (440. 4s.).

The Chairman, in answer to a question, said the next dividend, on June 2, would be the same as the one just declared.

Mr. Thowas Kirso, of London, said he was much pleased with the accounts and with the satisfactory report just read. He saw, from the report, that the 77 fm. level cast had been poor, but was now worth rully 18i, per fm., and he had no doubt ere long the agents would be in a position to speak more favourably on this part of the mine. The ground was very easy, and, therefore, they would be opening up or fast. Their principal point of operation, however, was at the bottom, or 99 fm. level. The lode in the 90 fm. level east was worth 5i, per fathom, and, as this end was only about 5 fms. behind the level above, where they had a good lode of ore, he saw no reason why they should not have an early improvement. He really believed that this would lead to a continuation of the course of ore they had in the 77. He had a plan in his hands, and he might remind shareholders that the distance of unexplored ground between the engine-shaft and Tresider's, at the 77, was over 60 fms. (Hear, hear.)

Capt. Pkrot said he was exceedingly well pleased with the mine, and, looking at the change of ground on the bottom part of the mine, and also the improvements in the 77, he aw no reason why they should not look forward to a continuation of dividends.

The meeting separated, after passing votes of thanks to the Chairman and officers of the company for their diligent the tention to the interests of the mine.

FOREIGN MINES.

FOREIGN MINES.

St. John del Ret.—The directors have received the following, dated Morro Velho, Feb. 28:—Produce, nine days of Feb., 11,197 oits.; yield, 7:233 oits. per ton. East due to the following. The directors have received advices from Capt. Treloar, dated Sabara, Feb. 26. The mining operations are being pushed forward, but no new feature calling for special notice has presented itself. They have been casing and dividing Henderson's shaft, and are preparing to put in bearers, cisterns, &c. They have reopened the shallow adit west of Henderson's shaft, but have not yet reached the point where the water is falling into the shaft. In the engine-wheel level they are rising upon the lode, which is about 3 ft. wide, for ventilation. In the Emily Mine but few changes have taken place since last reported upon. In Justinian's level several lines of loss staff have been driven through, and he concludes they are approaching the main lode. The castings, muchinery, and stores ordered from England had arrived at Rio, and were being forwarded to the mines.

Don Pedro North del Rey Gold.—The directors have just received, per Parana steamer, advices from Capt. Trelour, as follows:—So far as we can judge

being forwarded to the mines.

DON PEDRO NORTH DEL REY GOLD.—The directors have just received, per Parana steamer, advices from Capt. Tretoar, as follows:—So far as we can judge, the produce will again be favourable. The points in operation are still looking well. We are only waiting the arrival of more force to commence more extensive operations.

PORT PHILLIP AND COLONIAL GOLD.—The directors have received, by telegram from Suez, the following advices in anticipation of the Australian mail, from their resident director, Mr. Bland, at Melbourne, giving the result of the mouth of Jan. last:—Quantity of quartz during the month of Peb. was much improving. Receipts, 22581.; payments, 16571.; profit, 6011. Remittance, 10001.

SANTA BARBARA GOLD.—The directors are in receipt of advices from Capt. Bryant, dated Parl, Feb. 27, and by which they are informed that he was erecting a barrel for amalgamating the gold on the same plan as that employed at Morm Velho; this was expected to be ready in a month. The following are extracts from his letter to the board:—In the mine, the lode in the bottom is improving in size and appearance; it is now from 7 to 8 feet wide, containing more pyrites. In the deep level south the lode is also opening out, and is at present 9 feet wide; the stone from this is also of a more promising character. On the whole, I consider we are progressing invourably, and as the lode increases in size there is every reason to expect that the quality of the stone will improve, and after the next bottoms are cleared we shall be in position to raise large quantities.

QUEBRADA.—The directors have received the reports of Mr. G. J. Pritchett, C.E., and Capt. J. Browne, late of Wheal Buller, who have recently inspetid the company's land and mines. Captain Browne reports that the lode in the Quibrash Mine is 65 ft. wide, 40 ft. of which is yellow ore, of a produce of 18 per cent, and 25 ft. evide oxide, or ruby ore, black oxide, grey ore, and native copper of a produce of 37 for cent. The bearing is east of nort

towards the valley, affording immense facilities for cross-cutting, the stratum being microcous schist. He estimates the reserves at 32,400 tons, and that the ore can be used and dressed at 22, per ton. The only thing required to make these mines a source inexhaustible wealth is a cheap mode of transit; there is no want of copper. Mr. Pritchet fully confirms Capt. Browne's report with regard to the mines. He consider the sanitary condition of the estate generally to be dangerous to foreigners near the coast, but towards the mines the temperature is agreeable, and he considers for all predent persons extremely healthy. After the most careful consideration of the subject is all its bearings, the directors consider that the speedlest and safest way to develope the extraordinary resources of the company's property will be to complete the Aroa roule as rapidly as possible, and with this view they are inviting tenders for the constructing of the line from the mines to Yamare, and will proceed with other necessary arrangements with the utmost dispatch.

Altern And Oliteran March.—March 17: Raipss: The 30 fathorn level.

DUN MOUNTAIN COMPANY.

Sign,—Will you allow me, through the Journal, to say a few words to the shareholders in this company? I do so because some of the shareholders have of late sold their shares at an absurily low price, and, by so doing, have injured the property of other shareholders by reducing its market value. I wish to state a few plain facts, and if anyone doubt them they can easily satisfy their doubts by applying at the company's office, when they will find that what I say is correct, although by my card (which I enclose) you will see that I am wholly unconnected with the office.

The Dun Mountain chiefly produces chromate of iron, or chrome as it is commonly called, which is used for dyeing, bleaching, and other purposes, and for which there is a constant demand. The company's property contains immense quantities of this mineral, and they actually sent away last year 4000 tons. Owing to a smaller demand than was expected, caused by the contraction of trade in the manufacturing districts, the price fell, and the, first sale of 1000 tons was made at 41. 10s. per ton, and, with (say) 3000 or 4000 tons a year is fell, and the, first sale of 1000 tons was made at 41. 10s. per ton, and, with (say) 3000 or 4000 tons a year to sell, this will give a handsome dividend on the company's capital of 80,0007. But, this will give a handsome dividend on the company's capital of 80,0007. But, this will give a handsome dividend on the company's capital of 80,0007. But, the first of the contraction of trade in with in quantity at any moment in sinking for chrome, and of which a certain quantity has already been discovered. There is also time (which has a ready sale in the province) in unlimited quantity; also good roofing slates, which has a ready sale in the province in unlimited feelings, which are much wanted at Neison; and the railway, which brings these produces of the province in unlimited from the mines to Yamare, and will proceed with other mode with the unnoise to tame the value for the sale will be the shado

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derring the past forticipits with here in the transway, but we are again poles on rather better. Sidely, and I see the result for the current month will be unsublicatory, when are in hope that the change will only be term when the control of the

RISCA COAL AND IRON COMPANY.—A call of 1002, per share is ordered by the Court of Chancery to be paid before May 11 by the contributories of this company, to Mr. J. E. Coleman, the official liquidator.

pany, to Mr. J. E. Coleman, the official liquidator.

IRON ENAMEL.—The New Jersey Zinc Company (United States) mamufacture a peculiar kind of white pig-iron, which has been discovered to possess a remarkable property. If this be coarsely pulversied and sprinked on a red or white hot bar of wrought-iron, the powdered pig-iron meits and flows entirely over the surface of the bar, producing a sori of case-hardened enamel, which resists the edge of tools. It is thought that ornamental surfaces of cast-iron may be enamelled in a similar way.

Mining Gorrespondence.

BRITISH MINES.

MERITOVEY.—A. Eds., kayelf of 17 to look in the wites of shifty mader the 2d, also AMERITOVEY.—A. Eds., kayelf or 17 to look in Service. We have a real book in a specific george that is go through. The gamen is spreak, but was served to look in a specific george that is go the controlled. We have a real book of a real book in the 2d of the 2d o

creditable information, I believe we may depend on the Strawberry Iodes to be very good in that direction, which enhances the value of our grant a great deal meter han we proteins of the sett to the depth of 100 flathous below the adit level, on the belore-mentioned lodes. The expenders, smiths, and others, are getting on satisfactorily with the various work-noder, E. Domastan, April 5 to neutified out the lode in the 75, west of the various work-noder, E. Domastan, April 5 to neutified out to lode in the 75, west of the back of the same level, west of the vince, will average 5 ft. wide; the leader or head of the same shaft is 4 ft. wide, and or a very promibing character, worth 25 cwts. of the same shaft is 4 ft. wide, and of a very promibing character, worth 25 cwts. of the same shaft is 4 ft. wide, and of a very promibing character, worth 25 cwts. of the same shaft is 4 ft. wide, and of a very promibing character, worth 25 cwts. of the same shaft is 4 ft. wide, and of a very promibing character, worth 25 cwts. of the same shaft is 4 ft. wide, and of a very promibing character, worth 25 cwts. of the same shaft is 4 ft. wide, and of a very promibing character, worth 25 cwts. of the same shaft is 4 ft. wide, and of a very promibing character, worth 25 cwts. of the same shaft is 4 ft. wide, and of a very promibing character, worth 25 cwts. of the same shaft is 4 ft. wide, and of the same shaft is 4 ft. wide, and of the same shaft is 4 ft. wide, and of the same shaft is 4 ft. wide, and of the same shaft is 4 ft. wide, and of the same shaft is 4 ft. wide, and of the same shaft is 4 ft. wide, and of the same shaft is 4 ft. wide, and of the same shaft is 4 ft. wide, and of the same shaft, and the same shaft is 4 ft. wide, and of the same shaft, and the same shaft is 4 ft. wide, and of the same shaft, and the same shaft is 4 ft. wide, and of the same shaft, and the same shaft is 4 ft. wide, and of the same shaft, and the same shaft is 4 ft. wide, and of the same shaft is 4 ft. wide, and the same shaft is 4 ft. wide,

yielding I tom of ore per fm. In the winze sinking below the 50 the load is yielding I tom of ore per fm. In the stopes in back of the 60 the load is yielding 3 toms of ore per fathom.

EAST CLOGAU (Gold),—Capt. Roberts, April 7: Our progress last week was as follows:—In No. 2 level, on St. James's lode, they have driven 3 ft. 6 in.; the load is maintaining its usual appearance, composed of quartz and mundle, with here and there spots of copper ore. In No. 2, on St. David's lode, they have driven 3 ft. 6 in.; the load in this end is disordered for the present, but we are expecting an improvement here again soon. No. 1, on St. David's lode, we have driven 3 ft. 6 in.; the load in this end is disordered for the present, but we are expecting an improvement here again soon. No. 1, on St. David's lode, we have driven 3 ft. 6 in.; there is no change of importance in this end to advise you of this week. In No. 1, St. John's level, we have driven 3 ft. 6 in.; there is no change of importance in this end to advise you of this week. In No. 1, St. John's level, we have driven 3 ft. 6 in.; the load of light clay-slate, which is favourable for driving. In the 104 east the lode is from 6 illight clay-slate, which is favourable for driving. In the 104 east the lode is from 2 to 3 ft. wide, composed of a light blue clay-slate, with small branches of lead ore, but not of sufficient quantity to value; this end looks promising for improvement shortly. In the 104 west the lode is from 6 to 6 ft. wide, producing about 15 cwts, of lead are per fm. In the 92 east the lode is from 5 to 6 ft. wide, producing about 15 towts, of lead are per fm. In the 92 west the lode is from 5 to 6 ft. wide, producing about 10 cwts. I lead are per fm. In the 92 west the lode is from 5 to 6 ft. wide, principally composed of light clay-slate and sulphur, with small branches of lead ore, not sufficient in quantity to value, but has a more promising appearance for lead ore. The stopes shaft: In the 80 east the lode is from 3 to 4 ft. wide, principally comp

internal continues. The lode, so far as seen, is very promising, and worth 1½ ton of good ore per fim., with every appearance of a great improvement soon. The lode in Gard's shaft has improved, and is worth 3½ tons of good ore per fim. in the castarn end, and we are stoped as it and to find this course of ore is gradually extending west across the shaft. There is no the point at present requiring notice.

EAST GUNNIS LAKE AND SOUTH BEDFORD.—J. Phillips, April 9: The lode at the 38, east of cross-course, is 4 ft. wide, and worth 2 tons of ore per fim., with every the remainded in the saturation of the point at present requiring notice.

EAST JANE.—J. Seccombe, T. Hodge, April 4: Western Lode: Set the 14 to drive south by four men, at 50s. per fathom. Here our driving has been not worth of the western shaft by four men, at 50s. per fathom. Here our driving has been not worth of the western shaft by four men, at 50s. per fathom, the lode is still at points the salit. The continues to the salit. The lode at still at points the salit has a little and the salit has a little and the salit has a little and the salit. The lode will produce about 5 cwis. of lead per fathom; the lode will produce about 5 cwis. of lead per fathom, the lode in which is about 3½ feet wide, producing dressing work. At this level we have a contracted with masons for the eraction of the angle and the lode. The level of the north by three men, at 35s, per fathom; the lode will produce about 5 cwis. of lead per fathom; the lode will produce about 5 cwis. of lead per fathom; the lode will produce about 5 cwis. of lead per fathom; the lode will produce about 5 cwis. of lead per fathom; the lode will produce about 5 cwis. of lead per fathom; the lode will produce about 5 cwis. of lead per fathom; the lode will produce about 5 cwis. of lead per fathom; the lode will produce about 5 cwis. of lead per fathom; the lode will produce about 5 cwis. of lead per fathom; the lode will produce about 5 cwis. of lead per fathom; the lode will produce about 5 cwi

is 18 in. wide, producing a little tim. The lode in the 55, west of shalf, is 2 feet wide, yielding a little tim. The lode in the rise above the 45 east is 20 in. wide, producing tinay staff. The lode in the 45 west is split into two parks. The ground in the 45 cross-cut north is very favourable for progress. The lode in the stope below the 45 is worth 10. par fm. The lode in the two stopes above the 45 is worth 81, par fm. The lode in the 36 east as 2 ft. wide, composed of quarty and prise, with tin and good stones of ore, as promising a lode as anyone would wish to see for the depth.

EAST WHEAL MARTHA.—J. Richards, April 9: We continue to drive by the side of the lode in the still level cast of engine-shaft; the lode when last cut into was of large size, composed of gossan, quarts, mundic, and capel, a very fine-looking lode.

EAST WHEAL RUSSELL.—John Goldsworthy, April 8: Homersham's shaft is in regular course of sinking below the 120, in favourable ground for progress. In Mollard's cross-cut, in the 88 north, the lode having been cut through the men are placed to drive west on its course, the north part. The lode in the rise in back of the 45 is 3 ft. wide, composed of capel, quartz, prism, peach, mundic, and rich stones of yellow copper ore, promising to improve. There is no change in any other bargain throughout the mine to notice aince last reported on.

J. Richard, April 9: Homersham's shaft is in regular course of sinking below the 120 to south of the lode, the ground is favourable for progress.—Homersham's Shaft: In the 120 cast, west of Maymard's cross-cut, on north lode, 4 ft. is being carried, which is composed of capel, mundic, quarts, prism, from, and goed stones of ore. In Vigas' cross-cut anouth, in the 120 cast, the ground is not so easy for driving; the progress, therefore, is not so rapid as hitherto. In the 110 cast, west of Fewin's cross-cut, on north part of the lode, 4 ft. thereof is being carried, and consists of gossan, capel, quartz, prism, and altitle black oxide of copper. In John'

A new rise is sening put up in the composed of mundic, capel, quartz, and good stones of ore. In William's cross-cut north in the 88, west of Hitchins's engine-shaft, the ground is favourable for progress.

EAST WHEAL TOLGUS.—April 5: The lode in the end in the 34, east of John's shaft, is 16 in. wide, composed of peach, spar, and mundic. The ground in the 34 cross-cut south is hard. The lode in the end in the 34, west of engine-shaft, is 10 in. wide, composed of peach, spar, and mundic, with stones of ore. The branch in the end in the add it level, west of new shaft, is small and poor. The ground in the cross-cut south is easy.

FRANK MILLS.—J. P. Nicholis, John Cornish, April 8: The ground at the engine shaft is much the same as last reported. The ground in the 72 north, on the west branch, is still very good, and now letting out a little water; we, therefore, satisfant indicate he lode in the course of a week or so. The 60 north, on same branch, is yielding 1\frac{1}{2}\text{ ton per fim.} There is no change in any other tutwork operation, and the same remark will apply to the tribute department. All points are being prosecuted with the utmost vigour.

GAWTON.—G. Rowe, April 6: Saturday last being our monthly setting-day, the following bargains were ist:—The 30 west to drive by two men, stent 2 first, at 51, per faithom; the lode in the present drivage, including both north and south part, is from 5 to 6 ft. wide, worth home to the last taking down 3 tons of ore per fathom, and showing indications of improvement. The stopes in the back of this level, by six men, stent the month, at 44, 10s, per fm.; the lode in this stope is from 10 to 12 ft. wide, worth from 6 to 8 tones of ore per fathom. All the filling and landing in the mine for one month, at 71. Per fun. All the wheeling and tramming in the mine for one month, at 71. The new engine-shaft is down to the soil of took (in one part); we shall, with all possible dispatch, pat in all necessary timber required, and build a secure dam around it, in order to ta

below the 28, the depth required for bearers and cistern; the men are now engaged cutting elstern-plat, bearer-holes, &c., preparatory to fixing pittwork. In the north end at the 25 the lode is 29 in. wide, composed chiefly of flookan, friable spar, and mundic, with coasional spots of lead or—a very promising looking lode to the depth, embedded in soft congenial killas, very easy of progress.

GOGINAN.—April 7: The lode at the 100, east of Gilbertson's shaft, is 5 ft. wide, composed of spar, blende, and clay-slate, with strong spots of lead ore, a very kindly lode, and letting out a good deal of water. This point is being pushed on with vigour. The lode in the rise over the 80, west of Bryn Pica shaft, is 5 ft. wide, with a little ore, but not to value at present. The six tribute pitches at the different levels in the old part of the mine are yielding on an average 10 cwts. of lead ore per fm. We are pushing on with the work at Level Newydd as fast as possible, and have commenced cutting the water-course, &c. The dressing, &c., all going or regularly.

GREAT BRIGAN.—T. Trelease, G. Oates, April 5: We are glad to inform you that the ground in Harvey's engine-shaft, sinking below the 61, is changed for the better, and should it continue we shall be able to go on sinking with more dispatch, which is of great consequence to the mine. The lode in the 61, driving west of the above shaft, is still small and poor. The lode in this level, cast of said shaft, is a little improved; it is 18 in. wide, verying a branch of ore on the north wall 5 in. wide, worth 67, pr. fm.

The lode in the cross-course shaft, sinking below the 49, is 18 in. wide, yielding stones of copper ore of a more promising character. The lode in the 49, east of Trelease's shaft, is about 18 inches wide, containing a little copper ore, but not to value, the ground easier for driving. The lode in Highburrow shaft, sinking below the 49, least of the shaft, still continues its size, but fallen off in value, and is now worth only 102, per fm. The lode in t

is required.

GREAT RETALLACK.—W. H. Reynolds, April 7: We have re-set Stephen's shall be sunk by eight men, 6 ft. or the month, for 26t, per fm.; the lode in the shaft is octed with blende, copper, and lead. To cross-cut through the lode at the 60, by two ten and two boys, 1 fm., at 7t. The 58 west, by the side of the lode, to three men and tree boys, at 55s, per fm. We hope to hole to the 40 east in about five or six weeks, he 40, east of engine-shaft, by the side of the lode, by one man and one boy, at 70s, per thorm. The 40, west of engine-shaft, by three men and three boys, at 27s. 6d. per fm.; he lode yields a little blende, and we expect soon to intersect one of the Budnick lodes rossing our big lode.

fathom. The 40, west of engineers and we expect soon to intersect one of the long reliads a little blende, and we expect soon to intersect one of the long reliads a little blende, and we expect soon to intersect one of the long reliable special soon in the past week we have broken some good stamping work; we think the lode is an improving. The other parts of the mine are much the same as last reported. In an improving. The other parts of the mine are much the same as last reported. The sweet to yours of the 4th inst., the tin sold from the 10 fms. in Lyle's shaft (which is sweet to yours of the 4th inst., the tin sold from the 10 fms. in Lyle's shaft (which is 12 ft. long) and from the 140 is as follows:—Total adventurers sold from 10 fathoms in Lyle's shaft and 140 fm. level, 1138.; deduct for the 140 (say), 2501.—8781., or average of the 140 cay), 2501.—8781., or average of the 140 cay), 2501.—8781.

e's shaft and 140 fm. level, 11281.; deduct for the 140 (say), 2501. =5784., or aveing 671. 16s. per fm. for the ground sunt.

BEAT WHEAL BUSY UNITED.—T. Trelease, J. Fetherick, E. Richards, R. Glies,

Trelease, April 7: On Saturday last we set Harvey's engine-shaft to sink below the

to twelve men, as deep as required by bearers and cisters, at 451. per fm. The lode

he east end of said shaft is 5 ft. wide, worth 201. per fm. The lode in the 130, driv
cast of said shaft, is 5 ft. wide, worth 201. per fm. The lode in Offord's shaft, sink
below the 120, is 2 ft. wide, producing good stones of tin, but not sufficient to value,

lode in the 120, driving east of the above shaft, is very much improved, beling 2 ft.

le, worth for tin 121, per fm. The lode in No. 2 winze, sinking below the 110, is 5 ft.

le worth 104, per fm. The south part of the lode, in the winze sinking below the

level, east of cross-cut, is still small, producing a little tin and copper, but not of

the value. The lode in the 110, driving east, is still small, but looking more promising,

now producing good stones of copper ore. The lode in Trevenning's winze, sinking

owth 100, is 4 ft. wide, worth 201. per fm. The lode in the 100, driving east of wide, worth 194, per fm. The south part of the lode, in the winne sinking below the suid level, east of cross-cut, is still small, producing a little tin and copper, but not of much value. The lode in the 110, driving east, is still small, but looking more promising, it is now producing good stones of copper ore. The lode in the 100, driving east of Matthews's hant, is 7 ft. wide, worth 184, per fm. The lode in the 100, wast of Fielding's shaft, is 3 ft. wide, worth 184, per fm. The lode in the 100, wast of Fielding's shaft, is 3 ft. wide, worth 184, per fm. The lode in the 100, wast of Fielding's shaft, is 3 ft. wide, worth 184, per fm. The lode in the 100, wast of Fielding's shaft, is 3 ft. wide, worth 184, per fm. The lode in the 50, east of said shaft, is just the same as last reported—worth 74, per fm. No lode yet seen in the 70 cross-cut north. The lode in the 50, west of Black Dog shaft, is still large, yielding stones of copper ore.—Boscawen's Mine: The lode in Hunter's shaft, is thing below the 70, is small and unproductive. The lode in the 70 geospath, is still large, yielding good stones of copper ore, of a promising appearance. There is a small increase of water in the end, but we have not yet intersected the cross-course to drain the water from the 60 bottoms, but expect to do so very shortly, as the ground is about spent. The lode in the 70, west of Kitelee's shaft, is 18 in. wide, containing stones of copy ground spars for driving. The lode in the 60, driving west of Hunter's shaft, is still small and unproductive. We have cleared the 60, east of John's shaft, sufficient to enable us to get into the present end. The lode in this level is small, containing stones of copper ore, but not to value. We find a good deal of ground taken away in the back over this level; what is now standing seems to be poor. We have also commenced clearing the 40, east of the above shaft, to socertain the character of the lode in the 50, driving sast of the above shaft, is fonce. We have also commenced clearing the 40,

in the wissen sinking below the 68, east of shaft, is worth 162, per fathour.—Old Mine:

Inde in the stope in back of the 68, wast of shaft, is worth 162, per fathour.—Old Mine:

The cross-out at the 98 is driven sorted. Illarye's genic-shaft 28 shadous. Ord'ing

the stope of the 162 shadour of th

tin ground in this level for the next 8 or 10 fms. We have suspended the driving of the western level for the present, in order to put up a rise to communicate with the 24 above. We have set a new pitch in the back of this level, at 8s. tribute. In the 24 east, on the north lode, the lode is looking well, worth from 12: to 15i, per fathom. We have also set a winze to sink in the bottom of this level, on the main lode, against the rise mentioned above, which we hope to communicate in about two months, when we shall be in a position to set another new pitch in this level. In the 12 east, on north lode, the lode at present is small, being 6 in. wide, worth 7i, per fathom. We still continue to open and make a shallow level east of Hambley's shaft, on morth lode, and which we shall surge on with all possible dispatch, in order to get as far east as the 12, after which we shall selin a winze to communicate with the 12, when we shall be in a position to let more tribute ground to a greater advantage. The pitches in this part of the mine continue, on the whole, to produce good work.—Lamoe's Shaft: In the deep adit west the lode is 20 in, wide, with spots of tin, but poor. Noaltersation to notice in the pitches in this part of the mine. We expect our next sampling for the present month will be about the usual quantity.

the lode is 20 in. wide, with spots of tin, but poor. No alteration to notice in the pitches in this part of the mine. We expect our next sampling for the present month will be about the usual quantity.

NEW CROW HILL.—April 7: We have an improvement in the 55 end for lead, also in the stope at the back of the same level, and the mine is looking much better for lead, and the returns likely to increase. When the tramway is laid down, and a little more ground is laid open in this level, I have every reason to believe that the mine can be made to pay a profit to the adventers. We shall sample to-night about 1½ ton of best and 4 tons of second lead, which together will bring about 80i. We have also about 25 tons of blende roady to ahip, and propose to fill the vessel up with mundic.

NEW WHEAL PHOSPIDNICK.—W. Bishop, jun., April 4: Good progress has been made is sinking Watson's engine-shaft during the past week. No change in the lode since my peror for the meeting. The 30 end, west of this shaft, is looking very kindly for tin. The ground in the 30 cross-cut is a little harder for driving. The now shaft continues to be sunk with all dispatch. Our tribute pitches are improved since my last. NEW TRELEIGH.—Saml. Michell. April 8: The lode in the rise in the back of the 30 statom level, east of carr's engine-shaft, is large, with occasional stones of ore on its morth side. When clearing up the bottom of the 80 fm. level, about 6 fms. east of this shaft, we discovered a tolerable good branch of ore, on which we are now sinking, and should it continue it will pay very well. The stope in the bottom of the same level, yell fms. east, is without change since last week, yielding good work. The 70 fm. level, west of the shaft, is without much alteration since last reported—presenting a better aspect. The 70 east is; hear the point of communication with the 44 from 75 monshing, and for the producing to the ore, but not to value. No change in the 44, west of Symons's shaft; all are pushing

here to hold to the 70 from Carr's. We shall not be in a position for a few days to drive the 70 sad west of Syrmons', in consequence of so much staff in the levels, and have no period and the special content of the property of the proper

we have driven through a large and most premising losts in the level, above over minest of this end. The looks in the 69, west of Hillis shaft, is fared wide, and of a most promising character. The ground in Hosking's engine-shaft is hard. The looks in the 60, cast of this shaft, is large and promising, and will produce about 51, worth of the per fathorm.

ROARING WATER.—Capt. Thomas, April 7: Grady's lode is looking well, and promises to be a prize. The Orchard lode is not yet well defined east of the new all deep brought of the producing a good deal of mundic—a new feature in this mine. The new and Thomas's lodes are very promising. I will give you more particulars next week.

ROSEWALL HILL AND RANSOM UNITED.—E. Thomas, April 8: The lode at the engine-shaft sinking below the 100 is without change to notice; the lode in the winze below this level is worth about 61, per fun; the 140 west is proof-manour. The lode in the 150, west of the cross-course, has a promising appearance, worth from 2the same will apply to the 110 cast. We have latered by producing in the 110 cast. We have latered by producing the value; south; it is a kindly lode, about 18 in. wide, and worth from 101, to 121, per fun. The lode in the 30 cast is worth 610, per fun; the lode in the 30 cast is worth 610, per fun; the lode in the 40 cast is worth 610, per fun; the lode in the 40 cast is worth 610, per fun; the lode in the 40 cast is worth 610, per fun; the lode in the 40 cast is worth 610, per fun; the lode in the 40 cast is worth 610, per fun; the lode in the 40 cast is worth 610, per fun; the lode in the 40 cast is worth 610, per fun; the lode in the 40 cast is worth 610, per fun; the lode in the 50 cast is worth 610, per fun; the lode in the 50 cast is worth 610, per fun; the lode in the 60 cast is worth 610, per fun; the lode in the 60 cast is worth 610, per fun; the lode in the 60 cast is worth 610, per fun; the lode in the 60 cast is worth 610, per fun; the lode in the 60 cast is worth 610, per fun; the lode in the 60 cast is worth 61

with numerous heads or joints running in every direction; these heads are more warpeach, fluor, and mundic.

SOUTH CARN BREA.—T. Glanville, April 8: There is no alteration in any part of the mine since my report of last week.

SOUTH GRENVER.—E. Chegwin, April 7: In the 124, driving west of flat-rod shaft, the lode is 3 ft. wide, producing 2½ tons of copper ore, worth about 13f. per fm., but the ground is spare for driving. In the rise in the back of this level the lode is 2½ ft. wide, producing 2 tons of copper ore, worth about 9, per fm. We have about 2 fms. more to rise to communicate with the sump-winze. In the 124, driving east of flat-rod shaft, the lode is 1½ ft. wide, producing 1½ ton of copper ore, the lode is 1½ ft. wide, producing 1½ ton of copper ore, worth about 6f. 10s. per shaft, the lode is 2½ ft. wide, producing 1½ ton of copper ore, worth about 6f. 10s. per fathom, and the ground more favourable for driving. Our tribute pliches are not looks to swell.

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SOUTH DARREN—J. Boundy. April 1: There is a wines now in course of eithing from the 20 went to meet the 30 went, also a rise is now being put up from the of great from the 20 went to meet the 30 went, also a rise is now being put up from the of great put the put

west of Trevenen engine-shaft, is worth 12t, per fm. The stope going east in this level is worth 15t, per fm. The stope in back of the 148 east is worth 7t, per fm. The 140 is driving by the side of the lede. No. 1 stope, in the back, is worth 12t, per fathom, and No. 2 is worth 5t, per fm. The 130 end is rather poor at present, but we are glad to say the ground is easier, and indications better. No. 1 stope, in the back, is worth 8t, per fathom, and No. 2 is worth 6t, per fm. The 130 end is rather poor at present, but we are glad to say the ground is easier, and indications better. No. 1 stope, in the back, is worth 8t, per fathom, and No. 2 is worth 6t, per fm. There is no other change to notice since our TREWEATHA.—T. Foote, J. Scoble, April 6: During the past month the engine-shaft has been divided and cased from the 30 to the 40 fathom level, top-plat cut and made complete for drawing. The cross-cut west in the 40 has been driven 8 ft. 6 in. In the 30 south we are driving a tye level west of the old level, and from present appearances we hope to make better progress. We have commenced rising in back of this level yield on an average 4 cwts. each of lead per fathom. The three stopes in back of this level yield on an average 4 cwts. ander the 26 fm. level.

TRIMLEY HAIL.—At the engine-shaft sinking under the adit the ground is looking wark indity, composed of limestone and spar, with stones of lead ore.

TRUMPET UNITED.—G. H. Odgers, April 4: Goblet Lode: The 48 to drive west of the engine-shaft, is men, at 5t, per fm.; lode from 8 to 10 in. wide, and producing a little tin; here its men, at 5t, per fm.; lode from 16 in. to 1 ft. wide, of the engine-shaft, we liedling saving work for tin, worth 5t, per fm. The 25 west, to four men, at 9t, per fm.; lode worth from 10t, 11t, use fine the per fm.; lode small, but judging from the bunch of tin going below the 10t, we are anticpating an improvement. The 15 west, to two men, at 10t, per fm.; lode worth from 10t. 11t, use fm. 1 men and peach. The stope above this l

THE MINING JOURNAL.

**PART OF THE STATE OF

NORTH OF ENGLAND INSTITUTE OF MINING ENGINEERS.

The general monthly meeting was held in the rooms of the Institute, Neville Hall, Newcastle, on Thursday,

Mr. Nicholas Wood (the President) in the chair.

The following gentlemen were elected members of the Institute:—Mr. John Nixon, East Castle Colliery, Gateshead; Mr. John Wood, Flockton Colliery, near Wakefield; Mr. Thomas Cookson, Parkgate Colliery, near Rotherham.

The President in the same time as the meeting of the British Association, in Angust The sub-comenities appointed for this purpose had had an interview with the local exceptive committee of the British Association, in Angust The sub-committee of the British Association, in Angust The sub-committee of the British Association, and they had also been in correspondence together, and there seemed to be several difficulties in the way of the meeting being held after the same manner as at Birmingham, as was originally proposed. The council would lay a special report before the members, but the substance of the recommendations might be stated as follows:—That a circular be issued to all the members of the Institute, informing them that the rooms of the Institute would be open for them and their friends during the meeting of the British Association; and that special meeting of the Institute would be open for them and their friends during the meeting of the British Association; and that special meeting of the British Association; and the second of the British Association. So that members not residing in this neighbourhood would thus meet the resident members of the Institution, several of whom are competed with the executive of the British Association, and could receive from them all information relative to the meetings and excursions. Also, that all the papers which fall within the scope of the sections, and which may be prepared by the members of the Institute to be read at the special general meeting; and which would really include nearly all classes of papers, would be read before the sections of the British Association, and afterwards discussed at th

reases at the usual general meetings of the institute, and printed in the Transactions. If any of these papers did not fail within the scope of any of the sections, these could be read on the Saturday, after the close of the meetings of the British Association, who might have seed the set of the British Association, who might not otherwise have done to.

SAPETY OF THE DAYY LAMP GAUZE.—The PRESIDENT then introduced the subject of the "Safety of the Dayy Lamp Gauze." to which he had briefly alluded at the last meeting. His attention had been drawn to the subject by Mr. Greenwell, who had visited a colliery where they were in the habit of heating all their ismp gauzes red-hot previously to using them, to prevent their "explosing the gas should they become red-hot in an inframmable mixture." The two superiments, by inserting new lamp gauzes took the interior of a short red-hot pipe, when explosions occurred from votalitisation, and subsequent inframmation of the oil attached to the gause. He had tried, in a similar way, gauzes which had been thoroughly cleaned and braished, and sisk others after having been steeped in and throughly washed with a strong solution or aikal, and the same results followed. It seemed to him, therefore, probable that the oil was contained in the porces of the tron itself, introduced probable in the process of wire drawing. He thought that subject should be thoroughly investigated. Several explosions had occurred where safety-lamps were in use, and which had the lamblity of a red-hot gauze to explode an inframmable mixture, and the circumstances under which this could occur; and if it be found that this liability really does exist, then remedial measures should at once be sought for and adopted. Some years ago he (the President) made several experiments on the safety-lamp, the results of which had appeared in their Transactions. The gas was on several occusions exploided by putting the lamp rapidly through it, after the gause had attained a high temperature, and it was quite possible that

ATLAS MINING AND SMELTING COMPANY.—A special report upon this mine by Capt. Charles Thomas, of Dolcoath, dated March 26, is published amongst our Mining Correspondence, together with the report of Captain Warren, who states that the lodes appear to improve in value in the eastern end, where some solid tin has been discovered in a yugh.

end, where some solid tin has been discovered in a vugh.

Cost-Book Mines, and Adventurers' Liabilities.—A case, which affords another instance of the danger which capitalists incur in connecting themselves with cost-book mining companies, from the fact that every adventurer in a cost-book mining companies, from the fact that every adventurer in a cost-book mining is individually responsible for every debt that may be contracted on behalf of the mine, was heard at the Bristol Assizes, on Tuesday. Mr. Thomas Martin, a merchant, of Wadebridge, sued Mr. Thomas Gray, colonial broker, of London, as a partner in the Messer Mine, for goods supplied code, from the orders of Capt. Rich, the manager of the mine, to the extent of more than 2001, chiefly coals and things absolutely necessary to work the mine; all of them were used in the mine, and the mine paid its way for some time, but not altogether. The plaintiff, acting as a prudent man, never would have supplied the goods but for Mr. Gray's visit to the mine, and the interest he took in it. This was not a limited liability concern, or a joint-stock company, but a private partnership, in which each partners was liable for the debts of the company, and could recover a contribution from the other partners. Mr. Gray was used because he was the only substantial man in the concern, those associated with him being merely men of straw. Capt. Rich, the captain of the mine, was the principal witness against the adventurer. The defence was that Mr. Gray had advanced money to Gregs, a shareholder in the mine, and had gone to see it, as he had an option to become a shareholder, but did not do so. Mr. Gray stated that the whole of his advances amounted to upwards of 10001, not one farthing of which has yet been returned. Mr. Gregg stated that he had received the money from Gray as leans, and contradicted some of the statements of Capt. Rich. Mr. M. Smith, Q.C., having summed up the evidence for the defence, Mr. Collier, for the plaintiff, respited upon the whole case. He said that

pany, before Viee-Chancellor Wood, the shareholders of a joint-stock company, theory properties and 8 Viet., c. 110, were held to be individually liable on bills of exchange drawn by their duly appointed agent, though the Deed of Settlement contained a provise that bills drawn or accepted on behalf of the company should not affect share holders bayond their interest in the capital. It was also held that, notwithstanding 2 and 8 Viet., c. 110, s. 45, a joint-stock company may, by deed, under seal, and signed by two directors, appoint an agent to draw and accept bills on its behalf.

With this week's Journal we give a Supplemental Sheet, in which appears a Paper on the Coal Mines Inspection Act, and its Working: the Government Inspectors' Difficulties—the Coal Trade of New South Wales—the London Association of Foremen Engineers—the Association for the Prevention of Steam-Boiler Explosions—Coppe Mining on Lake Superior—the North Pool Mining District, &c.

The Mining Market; Prices of Metals, Gres, &c.

METAL MARKET-LONDON, April 10, 1863.

	d.	BRASS, Per. 1b.
Best selected p. ton 92 0	0	Sheets 8%d9%d.
Tough cake # 89 0	0	Wire 84d 9d.
Tile 89 0	0	Tubes 101/4113/d.
Burra Burra 94 0	0-95 0 0	FOREIGN STEEL. Per Ton.
Copper wirep. lb. 0 1		
ditto tubes w 0 1	0	Swedish, in kegs (rolled) 15 10 0
Sheathing & bolts p.ton 96 0		" (hammered). 16 0 0-18 0 0
Bottoms 101 0		Ditto, in faggots 17 0 0-18 0 0
Old (Exchange) 82 0		English, Spring 18 0 0-23 0 0
Old (Exclimingo) m os o	Q	Bessemer's, Engineers Tool 44 0 0-
CRON.	Per Ton.	" Spindle 30 0 0
Bars, Welsh, in London. 6 5		QUICKSILVER 7 0 0 p. bottle
Ditto, to arrive 6 5		SPELTER. Per Ton.
Nail rods 7 0		Foreign 17 17 6-18 0 0
" Stafford, in London 7 10		To arrive 18 0 0
		ZING.
Hoops ditto 8 7		In sheets 23 0 0-23 5 0
Sheets, single 9 5		TIN.
Pig, No. 1, in Wales 3 10		English, blocks119 0 0
Refined metal, ditto 4 0		Ditto, Bars (in barrels)120 0 0
Bars, common, ditto 5 10		Ditto, Refined 124 0 0
Ditto, merchant, in Tees 6 10		Artero, recimient cases and a contract
Ditto, railway, in Wales 5 12		
Ditto, Swed. in London. 11 15		Straits123 00
To arrive 11 15		TIN-PLATES.*
Pig, No. 1, in Clyde 2 14		IC Charcoal, 1st qua. p. bx. 1 8 0- 1 8 6
Ditto, f.o. b. in Tees 2 8		IX Ditto 1st quality " 1 14 0- 1 14 6
Ditto, forge, f.o.b. in Tees 2 5	0	IC Ditto 2d quality , 1 46-1 6 (
Staffordshire Forge Pig		IX Ditto 2d quality 1 10 6- 1 12 (
		IC Coke 1 3 0- 1 4 0
LEAD.		IX Ditto 1 9 0- 1 10 0
English Pig, ordny. soft 20 15	0-21 5 0	Canada platesp. ton 12 10 0-13 0 0
Ditto (WB) 23 0	0	In London; 20s. less at the works.
Ditto sheet 21 10		
Ditto red lead 21 10		Yellow Metal Sheathing .p. lb. 81/4d81/4d.
Ditto white 26 0		Sheetsp. 1b. 7%d8d.
Ditto patent shot 23 15		Indian Charcoal Pigs)
Spanish 20	0-20 10 0	in London 6 12 6- 6 15 0
- At the	works, 1s. t	o 1s. 6d. per box less.
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**Remarks.—Our market continues dull, there being only a limited amount of business doing, and nothing like a speculative feeling evinced the present time in any metal. Some of the existing flatness may be attributed to the Easter holidays, and next week we may hope to see orders flow in more rapidly, at any rate for home consumption. Accounts from India by the last mail are rather more cheering, and if shippers would but supply these markets steadily and regularly, instead of every now and then flooding them, as of late years, no doubt remunezative prices would rule then continuously. From the continent both of Europe and America the demand has somewhat slackened.

**COPPER.—English manufactured is rather more in request; the market remains firm, at fixed prices. Cake, tile, and ingot quiet, but steady, at quotations. The improved reports by the late Bombay mail have strengthened the market to full rates, the tendency having been of late almost unperceptibly drooping. We hear of no sellers now under price. Foreign is easy, at former quotations. Burra Burra, 941. 10s.; Kapunda, 951.; Chili, 811.; Spanish, 861.

Yellow Metal.—Large shipments continue to be made in this description of metal, which is getting more and more into use every year; but the large number of manufacturers precludes the possibility of adhering to fixed rates. Sheathing, 84; sheets, 74d. to 74d.

IRON.—Railway bars unaltered, either in price or position. Merchant bars are in very slight request; ironmasters are, however, disinclined to make lower quotations; 51. 10s. at works, and 64. 5s. fo.b. here. Makers of Staffordshire of first qualities are in full work, and easily realise quoted rates. Inferior makes are less saleable. At the late quarterly meeting it was agreed not to make any alteration in present prices. Swedish bars remarkably dull; stocks comparatively nil; doubtless when the demand revives much higher rates will ensue. Scotch pigs quiet, at 50s. 10\frac{1}{2}d. to 51s.; demand very limited. WB brand, on account of the difficult

ds 231. Sheets more enquired for; other kinds quiet. Spanish

pig, 201. 5s.

TIN.—No alteration is now expected in English, as foreign has again lapsed into quietude. Fine Straits, sellers at 122l. to 123l.; Banca, 125l.

BOSTON, MARCH 23.—Pictou and Sydney Coal continues quiet, and prices are nominal. Anthracite satill held principally at \$9 per ton for retail lots, but the tendency is downward. Scotch pig-tron is held quite firm; there have been assall sales at \$44 to \$45 per ton cash for Gartsherrie and other brands No. 1; and American pig at \$42 per ton cash for No. 1. Bar and sheet-iron remain steady, and have been selling in lots as wanted by the trade.

The MINING SHARE MARKET has been particularly heavy this week nd in the absence of business many shares have seriously declined in value, while, on the other hand, a few, in which shares had been heavily "beared," have advanced in the face of less favourable reports, fully proving what we have repeatedly called attention to, that in the present state of the market it is not always the condition of mines that regulates the price. When shares are in favour with the public, and purchases have been made, they are often singled out for objects of attack and for large "bearing" transactions; and, on the other hand, a demand is often created and prices put up by "buying in," to make good the shares sold and not delivered by the "bears." In a few mines this week, such as East Caradon, East Basset, Roskear, Roskearnowth, Pendeen, South Caradon, Glasgow Consols, Trelawny, Mary Ann, Wheal Crebor, Tincroft, Great Fortune, Calvadnack, North Treskerby, and others, a fair amount of business was transacted early in the week, but prices gave way in some of them towards the close. East Basset shares have been in good demand, and have advanced to 86, 87; the lode, we understand, is worth 80L per fm., and a fine lode. Copper Hill shares have also been more enquired for, at 82½ to 87½. Calvadnack, 9 to 9½. Basset and Grylls, 26 to 27; at the meeting a dividend of 1L per share was declared. East Caradon shares, after declining to 41, sellers, rose on Friday, and left off 42 to 42½; at the meeting, held at Salisbury, a dividend of 17s. 6d. per share (5376£) was declared, and after paying 600L on account of the new leases, 1797L 7s. 4d. was carried to credit of next account. The returns for the three months realised 9025L 12s. 5d.; current costs, including dues, 3343L 17s. 10d.; profit, 5681L 14s. 7d. The report states the 70 east, on the caunter lode, is worth 55L per fm.; west, 15L per fm.; the 60 east, in the present end, 15L per fm.; about 10 fms. behind this end another part of the lode has value, while, on the other hand, a few, in which shares had been heavily profit, 56811. 14s. 7d. The report states is worth 55L per fm.; west, 15L per fm.; the 60 east, in the present end, is worth 55L per fm.; west, 15L per fm.; the 60 east, in the present end, 15L per fm.; about 10 fms. behind this end another part of the lode has been discovered, worth 20L per fm., and likely to improve. The extreme end is not so far east as the rich lode gone down below the 50. The 50 east is worth 55L per fm.; the new lode, in the 70 east, is worth 25L per fathom; the 70 west, 8L per fathom. The drop in the standard of copper, the report states, has considerably reduced the profits, or the usual dividend would have been paid. At the meeting it was also determined that the mine should again be open to weekly inspections. On Friday a telegram was received that the branch in the 60 east was worth 30L per fathom; the western end, in the 70, 20L per fathom; and upon this shares rose from 41 to 423. Marke Valley, 8 to 84; a dividend of 2s. per share was declared at the meeting; the profit on the three months was 810L 7s. 3d. No material change in the mine. Carn Camborne, 18s. 6d. to 19s. 6d.; at the meeting a call of 1s. 6d. per share was made. West Rose Down, at the meeting a call of 1s. 6d. per share was made. No material change in the mine. Carn Camborne, 18s. 6d. to 19s. 6d.; at the meeting a call of 1s. 6d. per share was made. West Rose Down, 12; a call of 15s. per share was made. Tincroft shares have remained quiet, and flatter, at 21 to 22; the directors have forwarded a circular to the shareholders, informing them that the profits of the last year were 4881l. 12s. 6d., out of which 4417l. 10s. was paid in dividends, and 450l. invested, leaving a balance of unappropriated profit of 14l. 2s. 6d.; they also remark that the dividend declared in April last was paid out of working capital; and as it must have been declared by the directors themselves, their self-imposed condemnation sounds rather strange at the present motheir self-imposed condemnation sounds rather strange at the present moment. Cook's Kitchen shares flat at 26½ to 27; we understand the tin taken away from the Tincroft boundary, instead of 500%, as supposed, is likely to be worth considerably more, and affects the price of these shares, as well as the dividends which were promised for the year. These boundary

at hand. In West Drake Walls part of the sett, near the Prince of Wales, good stones of tin have been found in shoding.

Prosper United shares, owing to the heavy calls, are at a mere nominal price, but the reports show that the mine is improving, and the returns will increase. The tin sold on the 3d for 576l. 15s.; the copper estimated to fetch 530l., or 1000l. produce for the month, against 1400l. cost, including bills. Prince of Wales, 9s. to 10s.; Wheal Polmear, 22 to 23; South Carn Brea, 4 to 4½; Wheal Uny, 6½ to 7½.

The Aberdovey Silver-Lead Mining Company is about to be registered under the Companies Act, 1862, with unlimited liability, in order to raise additional capital. The company will consist of 5000 shares, of 2l. each, 3500 of which will be allotted to the existing shareholders for the transfer of their interest, and the remaining 1500 will be issued to the public. Capts. Aaron Ede and S. Trevethan, sen., have reported favourably upon the mine.

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Among the most important of the new projects which have been intro-duced to the public during this week is the Cambrian Stone and Slab Com-pany, which has for its object the efficient and systematic development of an extensive stone quarry situated at about two miles from Port Madoc, Carnarvon. The position of the quarry offers unusually advantageous fa-cilities for working, inasmuch as it forms, as it were, the face of an almost perpendicular mountain ridge, which is immediately contiguous to a high-way between Port Madoc and Carnarvon. Mr. G. L. Fuller, C. E., an eminent way between Port Madoc and Carnarvon. Mr. G. L. Fuller, C. E., an eminent slate engineer, gives it as his opinion that the small outlay of between 2000k- and 3000k. will be ample, not only to provide the property with all the necessary machinery at the outset, but also sufficient to open out the quarry to such an extent as to bring it into a remunerative state. Mr. Ellis Williams (agent of the Eilgwyn Slate Quarries) states that the property contains two different veins. The higher one is a slab vein of a white grey, and of about 20 yards in thickness. The slabs are stated to be of the best quality. In the other, or slate vein, a tunnel of about 30 yards has been driven, which has proved a thickness of about 10 yards. In addition to these veins, the property contains copper lodes, which have been to some these veins, the property contains copper lodes, which have been to some extent worked, and fair samples of ore produced. The company is to be divided into 2000 shares, of 10% each, of which only 1000 shares will be at first issued. It may be mentioned that no bonus is paid in any way for promotion expenses, and the sum to be paid for the estate includes all preliminary expenses. The property is held under lease for a term of 22 years unexpired, under a landlord's royalty of 1-14th, and a further reserved royalty of 1-20th, payable after and during such times only as the variety of 1-20th, payable after and during such times only as the returns in any one year exceed 40007.

On the Stock Exchange, there has been a steady demand for Mining Shares during the week. The following quotations were officially recorded in British Mining Shares:—East Basset, 81, 86½; East Caradon, 43½, 42½, 42½, 43½, 42½; Wheal Ludcott, 6½; East Wheal Russell, 4½, 4½; North Roskear, 39½; Roskearnowth, 15½, 15½, 13½, 13½; South Caradon, 400; Tincroft, 22½; Wheal Seton, 251, 248; Drake Walls, 1½. In Colonial Mining Shares the prices were:—Cape Copper, 3½, 3; Yudanamutana, 4, 4½, 4, 4½; Dun Mountain, ½; Kapunda, 1½; Port Phillip, 1½; General, 21, 2½. In Foreign Mining Shares the prices were:—Don Pedro, ½, 1; Fortuna, 5½, 5½, 5½; United Mexican, 6½, 6½, 6½, 6½; Santa Barbara, ½, ½; St. John del Rey, 56½, 56½, 56.

IRISH MINE SHARE MARKET.—The festive season just past has been a check to speculative operations on our Exchange, and the few transactions which have taken place in any securities have produced no noticeable change in the quotations of the previous week. For shares in Carysfort change in the quotations of the previous week. For shares in Carysfort and Connorree Mines offers were made at last rates, but refused. For Wicklow Copper Mining Company's shares (5l. paid) 41l., as a turther advance of 20s. per share was asked, but no business was done; holders, APRIL 11, 1863.

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nevertheless, firm. Mining Company of Ireland shares changed hands at 19.1 if a count of the cou

COAL MARKET.—On Monday, only 46 ships having arrived, the supply of first-class house coal was trifling, and prices rose 6d. per ton; seconds without material variation. Hartley's were in demand, at an advance of 6d. per ton; in manufacturers' no alteration. Best house coal, 16s. 6d. to 17s.; seconds, 14s. to 15s.; Hartley's, 13s. 9d. to 14s. 9d.; manufacturers', 11s. 6d. to 14s. per ton.—On Wednesday, 47 ships arrived; there was an improved demand for all descriptions of household coal, and prices quote an advance of from 3d. to 6d. per ton; Hartley's were also 3d. higher; manufacturers' quiet at last prices. Best house coal, 16s. 6d. to 17s. 3d.; seconds, 14s. to 15s. 6d.; Hartley's, 14s. to 15s.; manufacturers', 11s. 6d. to 14s. per ton.—On Friday there were 52 arrivals; the market for house coal was quiet, at fully last day's prices. Hartley's declined 3d. per ton; manufacturers' without alteration. Hetton Wallsend, 17s. 3d.; Scholley, 16s. 9d.; Tees Wallsend, 16s. 9d.; Tees Wallsend, 16s. 9d.; Tees Wallsend, 14s.; Oavison's West Hartley, 14s. 9d.; West Hartley, 14s. 9d.; Tanfield Moor, 12s.; Bute's Tanfield Moor, 12s.; 30 cargoes unsold; 35 ships at sea.

14s. 9d.; Tanfield Moor, 12s.; Bute's Tanfield Moor, 12s.: 30 cargoes unsold; 35 ships at sea.

During March the supply of coal to the metropolis by rail, seaborne, and canal was 446,451 tons 4 cwts., against 395,910 tons 15 cwts. for the same month of 1862, or an increase of 50,540 tons 9 cwts. In the three months ending March the railways brought 447,861 tons 8 cwts. against 359,154 tons 15 cwts. for the first quarter of 1862, or an increase of 88,706 tons 15 cwts. By sea the tonnage has, in the same period, increased from 837,108 tons in 1862 to 887,727 tons in this year, or an advance of upwards of 50,000 tons. The canals have fallen off from 3359 tons 15 cwts. in 1862 to 2432 tons 15 cwts. in 1863, or a diminution of 927 tons.

Bristol, Coal Trade.—The oversea exports of coal at Bristol during the month of March only amounted to 385 tons—85 tons for Demerara, and 300 tons for Barbadoes. Compared with the preceding month (Feb.), there is a falling off of 92 tons in the exports; and compared with the corresponding month last year, when 719 tons were shipped, there is a decrease of 334 tons. The total exports for the present year amount to 1610 tons.

Compared with last week's sale, the standard is about stationary, the tendency being downward. Compared with the corresponding sale of last month the standard is also stationary.

month the standard is also stationary.

At the Wheal Basset and Grylls meeting, on April 2, the accounts for the quarter, ending with costs for January, showed a credit balance of 15321. 9s. 6d. A dividend of 10001. (1) per share) was declared, leaving a balance of 5321. 9s. 6d. A dividend of 10001. (1) per share) was declared, leaving a balance of 5321. 9s. 6d. A dividend of 10001. (1) per share) was declared, leaving a balance of 5321. 9s. 6d. A dividend of 10001. (1) per share was a state of the that a suitable counting-house should be erected, under the direction of the committee, who would receive tenders, and accept such as they might think proper. A donation of two guineas to the Mining Institute of Cornwail was agreed upon, and a like sum to the Wheal Ruby National School. The agents' report stated that the tribute department was not as good as when last reported; but the stopes cast of Tyacke's and Wilkin's were calculated to make up the deficiency. The total number of hands employed was 330.

At East Caradon Mine meeting, on Wednesday (Mr. Childs in the chair), it was stated that the fall in the standard for copper had prevented the committee recommending upon the present occasion a larger dividend than 17s. 6d. per share. The profits for the three months amounted to 5679f. 14s. 7d.; and after deducting the dividend of 17s. 6d. per share, there would be carried forward 3031, to the credit of profit and loss. There had been charged on account of the lease 6001, after deducting which the total amount carried forward was 1371. 7s. 4d. Capt. Secombe stated that the reserves during the past quarter had been increased by 12,0001, to 15,0001. The accounts and report were received and adopted. A lengthy discussion thereupon ensued that the reserves during the past quarter had been increased by 12,0001, to 15,0001. The accounts and report were received and adopted. A lengthy discussion thereupon ensued that the management of the mine in proposing an alteration of the inspection days. He (Mr. Watson) had recomm

At Cwm Erfin Mine meeting, on April 4, the directors declared a divi-end of 4331. 10s. (10s. per share).

At Wheal Ludcott and Wrey Consols meeting on Thursday (Mr. J. C. sacs in the chair), the accounts showed a profit on the three months' working ending anusry of 1556, 2s. 2d. A dividend of 2s. 6d. per share was declared. Details in sother column.

At the Marke Valley Mine meeting, on Wednesday, the accounts for its three months showed a profit of 8101. 7s. 3d. The assets exceeded the liabilities by \$121. 13s. 4d. A dividend of 2s. per share was declared.

At North Treskerby Mine meeting, on Tuesday, the accounts for Jan. ad February showed—Balance last audit, 10011. 13s.; copper ore and tinstuff sold, \$2781. 3s. 9d. = 30741. 18s. 9d.—Mine cost, merchants bills, and sundries, 17001. 18s. 5d.; 7eb. dividend, 4451. 4s. : leaving credit balance, 9281. 14s. 4d. The profit on the two months' working was 3724. 5s. 4d. A dividend of 4451. 4s. (1s. 6d. per share) was declared, and 4831. 4s. 10d. carried to credit of the next account. Capts, Pryor, Kitto, and Treconing reported upon the various points of operation. The tribute pitches throughent the mine were looking well, and from the favourable change that the lode had undergone in the bottom of the mine they consider that their prospects are very encouraging.

At the Billins Lead Mine meeting, vesterday (Mr. Tuthill in the chair).

At the Billins Lead Mine meeting, yesterday (Mr. Tuthill in the chair), At the Dillinis Lead Annie Inecting, yesterthy (Bir. Attain in the account for the three months, ending with the costs for March, showed a debit balance of 8071, 10s. 11d. A call of 21, per share was made, and it was agreed to create 200 new shares of 301, each, to be issued at 151,, of which 51, is to be paid forthwith, and the remainder by such calls as the general meetings shall determine. The report of the agent (Mr. F. Evans) stated that as soon as the engine commenced to work they would begin to sink the shart, the result of which, there was very little doubt, would be attended with success. It was probable they would have to sink 16 or 20 fms, previous in driving the levels, but the ground was easy, and no doubt good speed would be made after the ongine went to work. All the expenses would be confined to this single bargin, until such time as it was thought the engine-shaft deep enough for laying open the vain cast and west by means of levels. The general belief was that success will follow this, and judging from appearances, he thought it would. The committee of management were re-elected.

this, and judging from appearances, he thought it would. The committee of management were re-elected.

At Garreg Mine meeting, on Tuesday (Mr. John Hutton in the chair), the accounts showed a debit balance of 67i. 14s. 6d., and a balance of liabilities over assets of 231i. 0s. 8d. A call of 2s. per share was made. Capt. Sandoe's report was of

was made.

At Merllyn Mine meeting, on Tuesday (Mr. H. B. Jones in the chair), the accounts showed a debit balance of 34, 9s., and a balance of ilabilities over assets of 64, 8s. Id. A call of 6d, per share was made. Capt. W. Sandoe reported that he hoped to soil 4 or 5 tones of ore on Thursday next.

At the West Rose Down Mine meeting, on Wednesday, a call of 15s.

At the Vicinity of the statement of accounts, this meeting, on Thursday (Mr. Lowndes in the chair), a resolution was passed to the following effect—"That in consequence of the non-arrival of the balance of ore raised prior to Sept. 30 last, by reason of which its value cannot be embraced in the statement of accounts, this meeting be and is hereby adjourned until Thursday, May 7.

LEEDS, APRIL 9.—There has been more activity manifested in Mining Shares, with fluctuations in prices in some description of stock. At Wharfedale Mine the prospects are improving: they are raising a greater quantity of ore from the east and west levels, in Craig's sump, and the quantity improves in depth. About 10 tons of ore are already dressed for smeiting, which will soon be largely increased.—John Gledhill And Co.

THE TIN TRADE.

Total 18,017 28,720 20,724 28,702

in driving the levels, but the ground was easy, and no doubt good speed would be made that the engine went to work. All the expenses would be confined to this single barrein east and west by means of levels. The general belief was that success will follow this, and judging from appearances, he thought it would. The committee of manage. At Garreg Mine meeting, on Tuesday (Mr. John Hutton in the chair), he accounts showed a debit balance of 671. 18s. 6d., and a balance of liabilities over uses of 231. 10s. 8d. A. call of 2s. per share was made. Capt. Sandoe's report was of At Michell Mine meeting, on Tuesday (Mr. H. B. Jones in the chair), and a balance of liabilities over assets of 231. 12s. 4d. A call of 2s. per share was made. Capt. Sandoe's report was of the beautiful of the committee of the TINCROFT MINING COMPANY .- The rules and regulations of this com-

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LEAD ORES.

| BLACK TIN | Sold on the 31st March | Purchasers | Pedn-an-drea | 9 1 3 22 | ... | 588 18 8-Carvedras | Sold on the 2d April | Cornubia | 2 4 2 1 | 69 10 0 | 164 13 4-New Blowing | ditto | 0 3 3 9 64 5 0 | 12 6 0 | ditto | ditto | 2 5 1 13 | 69 10 0 | 157 9 10 | High Blowing & ditto | 0 4 1 13 | 69 10 0 | 157 9 10 | High Blowing & ditto | 0 4 1 13 | 69 10 0 | 157 9 10 | High Blowing & ditto | 0 4 1 13 | 69 10 0 | 157 9 10 | High Blowing & ditto | 0 4 1 13 | 69 10 0 | 157 9 10 | High Blowing & ditto | 0 4 1 13 | 69 10 0 | 157 9 10 | High Blowing & Sold on the 4th April | Sold on the 4th April | Sold on the 4th April | Sold on the 5th April | Sold on the 4th April | Sold on the 5th April | Sold BLACK TIN

COPPER ORES.

COPPER ORES. Sampled March 25, and sold at Tabb's Hotel, Redruth, April 9.

331 13 382 10 47 5 31 4 42 7 93 15 22 10 7 2

COMPANIES BY WHOM THE ORES WERE PURCHASED. COMPANIES BY WHOM THE ORES WERE PURCHASED.

Tons.

Amount.

Vivian and Sons.

104 £ 701 3 9
Freeman and Co.

108½ 391 19 0
Grenfell and Sons.

197 1382 12 6
Sims, Willyams, and Co.

220 977.12 6
Mason and Rikington

282 1814 3 6
Bankart and Sons

10 43 10 0
Copper Miners' Company

139½ 526 11 3
Charles Lambert

189½ 469 17 0
Newton, Keatea, and Co.

96 305 9 6
Sweetland, Tuttle, and Co.

116 49 9 0
Neath Copper Company

21 69 16 9
Penciawdd Co.

186½ 1171 7

NO SALE on Thursday next, April 16.
Copper ores for sale on Thursday week, at the Royal Hotel, Truro.—Mines and parcels.—Devon Great Consols 2064—East Caradon 503—Pheujix Mines 470—Marke Valley 400—Devon and Cornwell 280—Befford United 200—Lawy Bertha 162—Creiaks 134—604—Best Emma 134—Wheat Friendship 105—Brook wood 160—North Robert 28—South Bedford 81—Clumnis Lake (Clitters) 81—Sortridge Consols 64—Wheat Arthur 44—Hawkmoor 33—Fursdon 20.—Total, 4930 tons.

Copper ores for sale at Swanses, April 14.—Cobre 739—Cuba 416—Knockmal—Berehaven 444—Laxay 328—Lishon 113—New Cornwall 42—Kammantoo 23—21—British Megulus 15—Calden Glen 7—Copper Ores 5—Gloster Siag 3—Phon New South Wales 1—Lioncher Siag 10.—Total, 2501 tons.

Prize Medals-Paris, 1855; London, 1862.

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GUBIC FEET of AIR PER POUND of COAL, producing a vacuum or section equal

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THE "CAUTIOUS MAN."—Mr. HALSE respectfully informs his clients that he has REMOVED to 28, THREADNEEDLE-STREET.

Mr. Halse will be happy to give his opinion as to the merits of demerits of any mine with which he may be acquainted. Speculators who are not his clients should enclose a stamped envelope. This is the time to buy good shares, not the time to sell them, but had stock should be sold at all times—that is, if purchasers can be found for it, which is not often the case.—28, Threadneedle-street, London.

HOW TO SAVE MONEY.—Before buying a mine share, read tracevoir and co.73 "MINES AND MINING," written specially to demonstrate the real profits of mining, and to protect the unwary from the heavy losses awaiting all who engage in the pursuit without experience. The information it imparts has cost many a speculator [hundreds of pounds. Per post 13 stamps.—21, Sun-aread, London, E.C.

Hotices to Correspondents.

• Much inconvenience having arisen in consequence of several of the Numbers during the past year being out of print, we recommend that the Journal should be regulerly Aise on recolpt: it then forms an accumulating useful work of reference.

SERLYING INDESTONS WITH PEAT.—In reply to your correspondent, "Cleveland," in last week's Journal, I may inform him that the smelting of from with peat in lieu of coke is successfully carried on at the Creevelea Iron Company's Works, shout seven miles from Sligo, where furnaces, machinery, and appliances were crected some few years since. The milne is of spiendid quality, and is found in large quantities. In this case there is an almost inexhaustible supply of peat for the manifacture of peat coke on the spot, beside good coal, for the getting of which very extensive workings are being laid open. The pig produced is first-rate, and I understand has been successfully

MELITIES INDICATORS WITH PRAT.—Will your permit me to inform "Cleveland" that there is no difficulty whatever in using peat as a smelting fuel where the peat and irrostone are found in the same locality. The quality of the iron, speaking in the abstract, is not affected by substituting peat for coal. The same deleterious ingredients are usually found in peat and in coal, so that, as a rule, the quality of resulting from would be equal. There are certain deposits of peat which yield a product almost ents are usually found in pear and in coal, so that, as a rule, the quantry of resulting on would be equal. There are certain deposits of pest which yield a product almost usl to charcoal in the manufacture of iron, but they are as rarely met with as oghead, Albert, or Torbanchilli coal; consequently, the iron generally produced with as is of the same quality as would be produced with coal from the same ironstone, nies, in exceptional case, the expense of using peat in the iron furnace is another fectual bar to its use.—Erin.

...—Would any of your subscribers kindly tell me of one or two good honest Slate Quar ries in North Wales, as I wish to invest in one; or advise me how to set about it with the least chance of getting into a bad one?—M. A.

the least chance of getting into a ma one?—M. A.

Parcy's Merakiknov.—In reply to several correspondents, we may state that Mr. Murray
expects the second volume of Dr. Percy's "Metallurgy" to be published next Christmas. It will be obvious that a work of the character of Dr. Percy's cannot be hurried
without jeopardising its accuracy, and considering that even the diagrams which are
inserted may be used as working drawings, it is, of course, desirable that the second
volume should possess the same amount of excellency as the first.

volume should possess the same amount of excellency as the first.

BROOKWOOD MINE.—Can anyone explain how it is that no meeting in connection with this property has been held since Dec. 12, 1881, when a call of 7s. 6d. per share, producing 1800s, was made. By reference to the sale accounts given in the Journal, I find that since the meeting referred to above the cry yielded by the mines has been sold for nearly 5000s. This should be sufficient not only to pay all expenses, but to realise a dividend, and thereby improve the prospects of the concern.—Sharkesoldes.

TREATMENT OF POOR COPPER ORES.—Being from home, and very much engaged, I have not had time to complete my paper for this week's Journal. I will send "Earthworm" the extract from an old work on metallurgy as soon as I return to Scotland, by which he will see the whole process, as now being practised at Alderiey Edge, is described, and which was also used in Germany more than a century since. "I understand Mr. Downe feels annoyed at my observations respecting the sandstone mine at Alderiey Edge, but I stated facts as I saw and heard them, I trust for general good,—Grand Harwood.

TIMEMOST.—It is to be hoped that as many shareholders as can make it convenient will attend the general meeting to be held on Tuesday next, as several most important points will have to be discussed. One point which it will be our duty to raise will be this—Upon what authority have the directors, or rather the directors under the late scrip constitution, to declare a dividend, it being one of the salutary laws of the present constitution that the majority of proprietors at a general meeting shall decide the amount of dividend to be declared? What is proposed to be done with the large reserve fund which was necessarily held under the old constitution, but as unnecessary under the new?—A. B. C.: Liekeard.

sary under the new?—A. B. C. Listeard.

Corth Minkha.—This property seems subject to most unaccountable fluctuations be tween "periods of great promise" and periods of great poverty. If the market pri of the shares is any criterion as to the position or prospects of a mine, North Mine must, just now, be in anything but a promising condition. At the meeting, held son two or three mouths since, it was stated that the returns would increase, and the costs decrease, when a certain "communication had been effected;" but from the moment when this point was attained the promise made seems, curiously enough, have been reversed, for the returns have decreased, and the costs increased. I wro you some time since with reference to this mine, but my letter was not publishe and subsequent events certainly seemed to indicate that you had shown a sour judgment in thes exercising your prerogative. At the present time, however, all the "satisfactory prospects" appear to have passed away, and, therefore, shareholde should know from the executive what is proposed to be done for the future.—X. F. J. COLUNTARY WINDING-UP.—It has been held by the Master of the Rolls, in Rethe We

Should know trothe executive what is proposed to so do not not interfer.—A. T. OCLUMPARY WINDING-UP.—It has been held by the Master of the Rolls, in Re the We Silver Rank Mining Company (Limited), that where a resolution has been passed before the passing of the Companies Act, 1862, for winding-up a company voluntarily the Court of Chancery has no authority, under the last-mentioned Act, to make winding-up order, but the 207th section preserves the previous jurisdiction, which resuses of limited companies was exclusively vested in the Court of Bankraptey, furning Exchange.—No Official List is now issued, or we should publish it.

Minimo Excilance.—No Official List is now issued, or we should publish it.

Minal Anthum.—Pray find space for the following question, which as a sharsholder I
have a right to ask, and also to have answered:—Why do the committee of management allow calls to be in arrear to the amount of 3871. 4s. 9d.? If they did their
duty we should not now be called upon for 2s. 6d. per share on 5895 shares. If, as in
the case of Wheal Edward, an improvement takes place, and the shares go up, then
the defaulters will soon find money to pay their calls, and, perhaps, sell their shares.
I ask what encouragement is it to those who pay the calls regularly if other persons
are permitted to be in arrears? I would suggest that if a call be uspaid at the end of
three months from the date it was made, the shares should be forfeited absolutely:
if this were done we should soon find that mines paid their way, and the public not
be so afraid of investing in them.—An OLD MINER.

COLL MONAND IN SOUTH WALES.—We are requested to state that "Long Wall" will

OAL-WORKING IN SOUTH WALES.—We are requested to state that " Long Wall " will reply to Mr. Nayamith's letter in next week's Journal.

reply to Mr. Naysmith's letter in next week's Journal.

Fortune Coffee Mining Company of Western Australia.—In two successive numbers of the Journal (Feb. 14 and 21) the shares of this company were quoted 4 to 4%; but as these were the first quotations given by you of these shares, so also they have proved the last, none having since appeared in your List. If these shares really were at so high a premium at the period referred to, surely there must have since been transactions in them to place on record, for I cannot think that an error can have occurred of such magnitude two weeks running in your otherwise reliable list of quotations. The notice you place at the foot of your Share List renders unnecessary an apology for troubling you on the part of—A Constrant Readers.—(The quotations were taken from the Stock Exchange List, and may therefore be considered correct. We presume no further transactions have taken place, or they would have been recorded.]

Karette Colliert.—We cannot give the information. "A Shareholder" should apply at the office.

CARRITZ COLLIEBY.—We cannot give the information. "A Sharehouser" should apply at the office.

Ancouver Coal Company.—Referring to this company, in last week's journal, you state that "the press" was refused admission. As a shareholder unable to attend the meeting, but very anxious to know what took place, may I enquire upon whose authority your reporter was refused admission, whether it was the wish of the directors or the proprietors? It is important that this should be known to the general body of proprietors, for it carries with it great significance, now that all well-regulated companies are only too glad to have their proceedings recorded.—Anxious.

**Sourh Robert — At the meeting of shareholders, on April 2, Mr. Rosewarne is reported to have said that "he had found that at Gunnis Lake they were so working that the adventurers were paying 30s. for every 20s. worth of work they got done, and without any other advantage; he hoped it was not the case in their mine. "Now, as this appears like a direct censure on the management, I should be glad if Mr. Rosewarne would explain through the columns of the Journal when and in what way there has been 30s. paid for 20s. worth of work in the before-named mine. I am inclined to think that Mr. Rosewarne has but very little, if any, aquantiance with the Gunnis Lake Mine, and, therefore, could not have "found" anything of the misappropriation of the money he alludes to. Perhaps, he may mean some other mine, either East or West Gunnis Lake; if so, he will no doubt inform us.—N. Seccente: Gunnis Lake April 8.

**ALES OF SHARES MY AUCTION.—We cannot comply with the suggestion of "Glasgow Parks and the suggestion of "Glasgow Parks of SHARES MY Auction.—We cannot comply with the suggestion of "Glasgow Parks and the parks and the suggestion of "Glasgow Parks and the parks and

comme: Gunnis Lake, April 8.

Sales of Shares by Aucrion.—We cannot comply with the suggestion of "Glasgow Sabscriber." We give the prices obtained for all the shares which are really sold; white of those not named some are bought in, and for others no bid is made by parties present at the sale. We cannot interfere with the quotations published in the daily papers: doubtless the broker is correct.

HARE DEALING.—We never interfere in the sale or purchase of shares: neither do we recommend any particular mine for investment or speculation, or broker through whom business should be transacted. The addresses of most of the latter appear is

OLD WHEAL NEPTUNE.—The letter of "J. N." is too personal for publication

To Directors, Solicitors, Secretaries, &c

IMPORTANT TO ALL CONNECTED WITH PUBLIC COMPANIES.—Now ready, price 2s. 6d., A HANDY BOOK OF WHAT TO DO AND HOW TO DO IT, IN ORDER TO FORM ANY MERCANTILE, MINING, AND OTHER JOINT-STOCK, COMPANIES. Designed as a PRACTICAL GUIDE for Projectors, Promoters, Directors, Shareholders, Creditors, Solicitors, Secretaries, and other officers. By Thomas Tapping, Esq., of the Middle Temple, Barrister-at-Law. London: Published at the Mining Journal office, 26, Fleet-street, E.C., and to be had of all booksellers and newsmen.

THE MINING JOURNAL

Railway and Commercial Gazette.

LONDON, APRIL 11, 1868.

The return to the motion of Mr. Augustus Smith, just presented to the House of Commons, contains comparatively little of interest to the mining mmunity, most of the grants and leases having been made either for the community, most of the grants and leases having been made either for the purpose of enabling the proprietors of adjoining lands to prevent the removal of shingle, &c., and the consequent exposure of their property to the inroads of the sea, or to give corporations of towns and local boards anthority to prevent nuisances on the foreshores. It appears that in all cases where mines were concerned the arrangements have been amicably made, and the terms which the adventurers have obtained are quite as favourable as from the lords of the adjoining soil. The value is almost invariably stated as uncertain, and the terms are usually a nominal dead rent. mercing into a is uncertain, and the terms are usually a nominal dead rent, merging into a small royalty. We select the following as those in which our readers are most likely to take an interest.

most likely to take an interest.

All the mines and minerals under the bed of the sea below low-water mark, extending to the distance of 800 fathoms seaward, in front of the lands comprised within the limits of a mining work called Pendeen Consols, in the parish of St. Just, were leased on October 30, 1861, to Mr. Samuki. Borklase and Mr. John Borklase for 21 years, from Oct. 10, 1860, determinable by the lessees upon giving six months' notice; the rent reserved being a royalty of 1-44th part of the value of the tin, tin ore, and tinstuff, and 1-40th part of the value of all other minerals raised and sold. All mines and minerals under the bed of the sea, below low-water mark, adjoining the mine called Wheal Castle. in the parish of St. Just, and tinstuff, and I-40th part of the value of all other minerals raised and sold. All mines and minerals under the bed of the sea, below low-water mark, adjoining the mine called Wheal Castle, in the parish of St. Just, have been leased to Mr. John Scorell, the Hon. Evelyn Boscawen, Viscount Falmouth, and Mr. Samuel Borlars, for twenty-one years, from April 5, 1861, determinable by the lessees at the end of any year of the term, upon giving six months' notice; the reat reserved being a royalty of 1-48th part of the value of the tin, tin ore, and tinstuff, and 1-36th part of all other minerals raised and sold. All mines and minerals under the bed of the sea, below low-water mark, adjoining the mine called Wheal Prudence, within the manor of Tywarnhaile, have been leased to Mr. Courts Thomas and Mr. Campbell Thomas, or their nominees, for twenty years, from June 21, 1862, in consideration of a royalty of 1-20th part of the value of all the minerals raised and sold, not being less than 5l. per annum, during each of the first two years of the term, and not being less than 10l. per annum during the remainder of the term; and all the mines and minerals under the bed of the sea below low-water mark, on the western side of Mount's Bay, adjoining the mine called West Tolvadden, in the parish of Newlyn, have been leased to Mr. Thomas Weston, Mr. Bethuel Phillips, and Mr. Henret Langlet, for seventeen years, from April 5, 1862, at a royalty of 1-18th part of the value of all the minerals raised and sold, subject to a deduction not exceeding one moiety of such royalty if in raising the minerals the lessees require to make use of any way-leave, or other easement, over or upon any adjoining land not belonging to the Duke of Cornwall, and a royalty of 1-20th part of the value of all the minerals raised and sold without the use of any such way-leave or easement; but the royalty to be paid is not to be less than 5l. during the first year of the term, or less than 10l. per annum during the remainder of the term. In Gloucester, a

Forest of Dean Central Railway Company for ninety years, at 10l. per annum rental, and an additional rent of 10ll. for each staith which may be erected by the lessees on the land.

PRUSSIAN INDUSTRIAL PROGRESS.

PRUSSIAN INDUSTRIAL PROGRESS.

Whilst Prussia is drawing upon itself the unenviable attention, if me the contempt; of the civilised world by the mad and senseless policy of in present Ministry, which so abjectly follows its ruler in the retrogradest tempt at reviving the system and practice of the middle ages as regain political affairs, care must be taken to do justice to the great mass of he Prussian people, and not confound in the censure of the small minor now ruling at Berlin the great, intelligent, and rapidly progressing middle classes of that country, who whether in office in commercial, mining, in way, or other industrial pursuits, are at last by steady degrees obtains their legitimate influence in the State, and pointing the true way to its dustrial and consequent political greatness.

It is hard for any people, even so well-educated a people as the Prusians, to shake off at once the habits and the prejudices of ages acquired their system of so-called paternal government, and jump at once into a full bloom of constitutional rights and constitutional government; but in still harder, and the present Government will sconer or later find it so, is a whole nation so educated as the Prussians, and surrounded by the educated states of Germany, and the educated and commercial community of the Hanseatic towns, of Holland, and Belgium, to resist the teaching which the railway system brings with it, and the experience which rap

cated states of Germany, and the educated and commercial community of the Hanseatic towns, of Holland, and Belgium, to resist the teaching which the railway system brings with it, and the experience which rap and frequent intercommunication with free and constitutional peoples, a ford. It would scarcely be just to the middle classes in Prussia to ambute to these comparatively low grounds, instead of to their own superintelligence, the advance they have made, and to which we are about refer, but it is inconceivable—it passes the limits of astonishment—comprehend how at this time in any civilised state of Europe, pretending to have a constitution, a minority can be found to ignore such teaching and experience—to keep back instead of encouraging such a middle class and so check the national progress of the country. No doubt it will, i must, end like the lunatic's attempt to keep out the tide with a pitching frew people have made noiselessly, without display or boasting, may rapid advance in industrial pursuits and reforms affecting their fust manufacturing and commercial prosperity than the Prussians within the last twelve or fifteen years, and especially—strange to say it—during the regency of the present King. But, then, the advisers of the "Recess," notwithstanding some faults, were different from the present advisend the "Kino." Mr. Von der Heydy, though little liked in many queters, was a most efficient Minister of Commerce, Public Works and Mina and, as Prussian Ministers go, even of Finance. The present men are weining their energies and powers, if indeed they have any, on one infatuation, and accrificing to an ignis fatuus of "divine right of government the material interests of the country, and losing the mon's history for the is provement and increase of the power, not only of Prussia itself, but of the whole German nation, which by Prussia's peculiar position and example it might effect.

The late International Exhibition gave many practical, undeniable profess.

it might effect.

The late International Exhibition gave many practical, undeniable profof the advancement which Prussia has made in many important braces of manufacture. It is only necessary to recall the attention to the exhibition of cast-steel axles of great dimensions, steel cannon, steel railwe wheels, and other works, to remind us that she has carried away in real the palm of victory; whilst the careful, impartial, and scientific observed her mineral productions, geological plans and sections there exhibited, at testify that Prussia possesses to an extent, perhaps, greater than any obstate in Europe the raw materials which form the foundation of the weak of manufacturing nations. Practical and convincing as these proofs are progress, yet to get a comprehensive view of the industry and advancement of such a nation, one must extend their observations to the country itseld ip into its statistics, see its works, and by its recent progress judge of a capabilities of extension. bilities of extension.

of such a nation, one must extend their observations to the country ised dip into its statistics, see its works, and by its recent progress judge of a capabilities of extension.

A railway system cheaply and judiciously formed, admirably manuel in its passenger traffic, and rapidly improving in its goods and miss traffic, paying, when managed by joint-stock companies, profits of 6, 1, 15, 18, and even up to 22 per cent; several coal fields, containing alms innumerable beds of coal, the greater portion workable, and many equin quality to our best Cardiff and Newcastle coals—coal pits and achinery in many instances rivalling our best examples in the North of Equand, and selling their coals as cheaply as in England; iron ores of envariety, and copper, lead, and zinc ores in abundance; chemical, medical, and engineering science and theory almost surpassing, if we as admit it, our own, and only requiring the "ballasting" of practice to mit the best "permanent way" to success; laws lately reformed in miss and commercial industry, reducing "fatherly government" interferent to a minimum, or merely what is essential to the safety of human lifting and commercial industry, reducing "fatherly government" interferent to a minimum, or merely what is essential to the safety of human lifting and commercial industry, reducing "fatherly government" interferent to a minimum, or merely what is essential to the safety of human lifting and commercial industry, reducing "fatherly government" interferent to a minimum, or merely what is essential to the safety of human lifting and commercial industry, and intelligent people, form, we be mit, in the whole a catalogue of facts which requires us to separate in appreciations or our censures the people from its present Government, si call for more detailed investigations into causes and effects, upon which shall willingly enter hereafter.

Had we less faith in the elasticity of British commerce we might, for all we know, fear for our supremacy in industry and manufactures from all we know,

THE MONT CENIS TUNNES.—Mr. Bartlett, an English engineer, sill work a boring machine, by which a tunnel could be pierced with any dity eight or ten times greater than any hitherto obtained by order means; but Mr. Bartlett's contrivance was wrought by steam, and on the applied to a tunnel where air could not be had for combustion. The longineers proposed to substitute compressed air instead of steam; and, not within long opposition on the part of foreign scientific men, their method is now in full of their success exceeded the most sanguine expectations. The tunnel was in 1857, with ordinary means. That year and the two following were spent in party operations, such as the construction of houses, workshops, &c., for in their pitable regions there was all to be done. The first experiments with the borist chines were made in 1861 at Bardonnéehe, on the Italian side; but even on the Italian side; by ordinary means. By the sid of the new machines 170 metres were added hand 380 in 1862. On the Savey side, at Modane, from 1855 to Jan. 1, 1863, so ordinary means were employed, and the result was for the whole of that pend of the present year, has attained a length of 2190 metres, 550 of which have begind the person year, has attained a length of 2190 metres, 550 of which have begind the person year, has attained a length of 2190 metres, 550 of which have begind the perfection of a half-developed method—namely, 380 metres—must surrely be possible 1863; nay, it is quite certain that the result of the present year with the stream of the perfection of the side of Modane, again, the new method was applied on Jan. 25 leat, and the errors which retarded the work at Bardonnéche will be avoided, the result work on both sides for 1863 will be no less than 300 metres. The engineers confident that the work will proceed with even greater speed, but the Minister has his calculation on the most certain data, and, by limiting the results of the progress to 500 metres, he thought the whole undertaking would be achieved in 1956.

CAVITIES IN PRECIOUS STONES.—The Philosophical Magazini in shees an exceedingly interesting paper by Sir D. Browster, on care

CAVITIES IN PRECIOUS STONES.—The Philosophical Magazini nishes an exceedingly interesting paper by Sir D. Brewster, on crobservable, by microscopic power, in the diamond, topaz, and berginal years ago the learned author discovered in these cavities influids of different density. One of these, named cryptoline, is fixed oily; the other, Brewstoline, is volatile. From the several curious of vations and facts recorded in that paper we extract the following:

"In the Koh-i-noor diamond, which the Princa Consort kindly permitted multiple of the proper of the pr

Tofo

comparatively few diamonds without cavities and flaws, and that this mineral is a fouler stone than any other used in jewellery. Some diamonds, indeed, derive their black colour entirely from the number of cavities which they contain, and which will not permit any light to pass between them." Further on, he says:—"The discovery of pressure cavities is topax and diamonds may be considered as completing the evidence for the igneous origin of these minerals, and of the rocks which contain them. We know that gas in a state of compression exists in minerals.

The gas in these cavities, being exposed to changes of temperature while the substance is still in a plastic state, compresses it and gives it that variation of density which produces four luminous sectors in polarised light."

MONEY MAKING-No. I.

There are few of our national institutions in which the public are more directly interested than in the Royal Mint. Everybody understands the use and value of current coin of the realm, and there are few persons who are not desirous of learning something of its mode of manufacture. It happens that we possess much exclusive and undentic information in respect to the art of coining, as practised at the Mint; and, in a short series of papers, it is our intention to excissive and undentic information in respect to the art of coining, as practised at the Mint; and, in a short series of papers, it is our intention to excissive and undentic information in the control of the machine. The control of the machine is our intention of the machine of the machi

THE CLEVELAND IRON TRADE.—The Cleveland district is now admittedly amongst the first for economic product, combining as it does all the main essentials for carrying on a successful trade. At Middlesbro'-on-Tees, Messrs. Bolckow and Vaughan, who have, no doubt, a very extensive trade, obtain all their ironstone at first cost by raising it from their own pits at Eston, but other manufacturers he locality are subject to an additional charge for water. There is now in the market, as will be seen from an advertisement in another column, an eligible freshold estate in Cleveland, where the important advantages of abundance of water, ample spatio the deposit of slags. There are three distinct and the same. The only item which compares unfavourably is coke, and even in this difference is corrige; the difference is corrige to the distance from Durham, and does not half the price of Middlesbro' and desired from Durham, and does not half the price of Middlesbro' and desires than it stakes 4 tons to make a ton of iron) is are equal, and Cleveland is well situated for transit of the produce by rail to the pig-

THE WEISH SLATE TRADE.—The demand for slates is so great that it is found impossible to get a supply, without a good deal of delay, vessels having generally to wait a long time before they can ship a full cargo. The chief markets for slates are Hamburg and the ports on the seaboard of the Salite; and even in England the demand for them is increasing, so that orders to the latter place can exceed be executed at all, or only to a very limited extent. In the meanwhile streamous exertions are being made by the several new slate companies to get their quarries into profitable and working order, and we are glad to say, in most instances, with signal success. The trainway from the port to the Crossor Quarry, Lianfrothen, across the Traeth Mawr, has been commenced, and is rapidly being proceeded with, and a large quantity of rails have arrived ready for immediate use. A new line of railway from the Cob to the Festinic Q Quarries, in connection with the Weish Coast Company, has been passed through Parliament, which, whatever may be thought

of the scheme being a paying one, will certainly facilitate trade between the two places. It is also probable that a branch line will eventually be made from the Croesor line to Beddgelert, and it is said that a locomotive will be employed upon it, as this has been stipulated for in the lease. In fact, the utmost activity is being displayed in all parts of this interesting district. I am sino informed that matters are looking up considerably at the Gorsedau Siste Quarry, in which work no less than 160,000/, has been sunk; and that within the last week or so the number of quarrymen has been more than doubled. The Moelfra Quarry, near Brynkir, still shows every indication of becoming in time a first-class speculation, under the able management of Mr. Presser and Mr. Brymer; and it is also stated that the sister quarry at Hundreddu, of which Sir Edward Poore is the chief proprietor, has recently been much improved in its prospects, and promises to turn out well. I cannot inform you as to the present condition and prospects of the quarry at Mynydd Ednefed, near Cricoleth; but I see that a tranway has been nearly completed from it to the Cricaleth Harbour. I presume its general prospects are encouraging and invourable. I may also add in this place that the slate and slab quarry adjoining the Penamer-road, on the side of the hill Moel Gest, and which I understand is carried on by Mr. Breese, continues to be worked, and that some excellent slabs are to be obtained from it.

THE LATE JOHN TAYLOR, ESQ., F.R.S., F.G.S., &c.

Another of that phalanx of eminent scientific men who have within the present century done honour to their country has departed from among us. On Easter-day, 1863, died JOHN TAYLOR, in the 84th year of his age, beloved and respected by those who remembered his great talents his sense of justice, his liberality, and the probity which influenced him in all the concerns of life. Mr. TAYLOR was the eldest of a family of sons

us. On Easter-day, 1863, died John Tatlon, in the 84th year of his age, beloved and respected by those who remembered his great talents his sense of justice, his liberality, and the probity which influenced him in all the concerns of life. Mr. Tatlon was the eldest of a family of sons and daughters distinguished for their talents. He was born at Norwich on Aug. 22, 1779. In the year 1798, Mr. Tatlon, being then only 19 years of age, and brought up as a land surveyor and civil engineer, was invited by some friends to take the management of Wheal Friendship, near Tavistock, a mine which under his care became very profusible, and the working of which is still continued. His connection with this mine was a source of much gratification to Mr. Tatlon in after life. It was pleasant to hear him when approaching fourscore years of age discoursing on Wheal Friendship, at the annual mining dinner, in returning his thanks to the friends by whom he was surrounded. In 1803, Mr. Tatlos projected and commenced the Tavistock Canal, of which about three miles is tunnelled through a hill of granitic and other hard rock. He evinced great skill in this work, for which the prepared himself by closely standying all the publications of Smeaton, and other great engineers of the time. The execution of this canal led to the discovery of the mines of Wheal Crowndale and Wheal Crebor, both of which produced large quantities of copper, and yielded considerable profits. The success of Wheal Friendship, and other mines in the neighbourhood of Tavistock, and afterwards of the Great Consolidated and Diried Mines, besides others in Cornwall and the North of England and Wales, brought 18r. Tatlon into great repute as a mining engineer, while his solicitous, particularly on his leaving the properties of the properties

At the Paris Academy of Sciences, a paper was received from M. Lucien de la Rive, on the conducting power of thallium for electricity. As this new metal is slightly soluble in water, in the ratio of 1 to 500, its density had to be determined in naphtha, and turns out to be 11.853; whence its conductibility for electricity varies between 5.21 and 5.28, at a temperature of 12° centigrade (53.6 Fahr.)

ECONOMY IN COLLIERY VENTILATION.—In the Mining Journal of April 26, last year, we published a description of the ventilating power in use, and which had been in successful use for the previous two years, at the Farnley Wood Bottom Colliery, near Leeds, and we now learn that an additional year's experience fully confirms the favourable opinions which were entertained with respect to the practical value of the arrangement. At the Farnley Wood Colliery, worked by Messrs. Abraham Rogers and Son, we are assured that the quantity of air circulating is ample, and may be increased to any extent at pleasure, and that the more passed through the pit the greater is the profit. Instead of burning the fuel in the ordinary way, Mr. Rogers simply cokes it, availing himself of the heat from the ovens to rarefy the air, and cause a current through the workings. The ovens may be placed in the position now occupied by the furnace or at surface, an additional flue and chimmeystalk being necessary in the latter case. Whether the top or bottom of the upcast shaft be chosen, a given number of coke ovens are constructed according to the extent of the workings, such ovens being enclosed in a casing, which in lis turn is covered by an ordinary forthwork flue, provided the apparatus be placed at the surface; but underground the ordinary furnace drift would be applicable. The ovens, whether two or more, are charged alternately, and thus the temperature necessary to ensure ample ventilation is readily maintained. By this means the ventilation is kept up in the most economic manner, the greater portion of the coal and slack used to produce it being rendered marketable as coke. By a slight modification of the arrangement actually in use at Farnley Wood, Mr. Rogers's invention would be applicable in the most fiery pits, securing all the advantages of furnace ventilation, and at the same time preventing the possibility of the ignition of the explosive gases at the furnace. At Mesers. Rogers's colliery the extent of the workings, to be ventilat

any payment whatever beyond that necessary to build the ovens and the flues above them. The necessary apparatus being so cheaply erected, as indicated above, and the fact that no patent rights have to be paid for, should alone be sufficient to induce the general adoption of the arrangement. And when to this we add that the result at the Farniery Wood Colliery has been that slack which was unsaleable as such at is, per ton is converted into coke worth 5s, per ton on the spot, we are bound so admit that Mr. Rogers should not be permitted to want the gratification, which is all 5e desires, ofknowing that his invention has been universally applied, and proved to be of general utility,

FOREIGN MINING AND METALLURGY.

FOREIGN MINING AND METALLURGY.

A joint-stock organisation for working nickel bearings at Cravino has just been formed, under the title of Boulart, Boucher, and Co. The capital of this enterprise is 29,000 l., divided into 1450 shares, of 20 l. each. Nickel is a scarce and dear metal, the use of which is everywhere extending. The Governments of Belgium, Italy, and Switzerland have introduced it into the composition of a portion of their coinage, and it is more especially in mixtures with copper, tin, zine, or cobalt that it is utilised. The works which apply themselves to the treatment of this metal are not very numerous; there are some in England, one in Belgium, and several in Germany; but this branch of metallurgy has not acquired a greater development, in consequence of the absence of sufficient supplies of nickel minerals. Some workings of nickeliferous minerals exist in Germany and Italy, and it is in the province of Sasa, in this latter country, that the Mine of Cravino Italy, and it is in the province of Sasa, in this latter country, that the Mine of Cravino Italy, and it is in the province of Sasa, in this latter country, that the Mine of Cravino Italy, and it is in the province of Sasa, in this latter country, that the Mine of Cravino Italy, and it is in the province of Sasa, in this latter country, that the Mine of Cravino Italy, and it is in the province of Sasa, in this latter in which the Cravino Mine Is found, and formerly Finance Minister, observes:—"The undersigned concludes that the works executed by M. Boulart have shown an arsenious vein of cobalt and nickel in a gauge of dojonite lime, quartis, and talous and winding schiats, with which it is intermingled. This voin inclines almost vertically to the west, and the metalliterous threads which it comprises very in power from a very minute faction to revenights of an inch. The undersigned is of opinion that the organization of the second of the comprise of the control of the second of the control of the control of the second of the control of t

The Beigian market for pig is pretty well sustained; the rise in the prices of casting pig has been supported, and transactions in No. 5 have not been effected below 31. 14s. per ton.

As regards the foreign metal markets, copper and zinc offer at this moment less interest; business has sensibly slackened, but, nevertheless, in consequence of the great firmness of holders, prices have been maintained almost without variation. Lead is in moderate demand, but prices are firm. At Antworp, Beigian has made 191. to 191. 8s. per ton; German, 191. 4s. to 191. 2s., and Spanish, 192. 8s. to 191. 12s. per ton. At Kotterdam and Amsterdam, Stolberg has realised 11% ds.; at Paris, Spanish in sammons has brought 221. 8s.; French, 261. 12s., and Beigian, 221. per ton. At Amsterdam, the quotation for Dromiteim copper has been 07% fis.; for English, 61 fis.; and of Swedish, 62 fis. At Havre, Chilian and Paruvian in bars has realised 321. to 341.; Peruvian mineral (pure standard), 341.; United States, Baltimore, 981.; ditto, Lake Superior, 991. to 1001. 16s. [Mexican and La Pista in bars, 801.; Russian, 1981.; old yellow copper, 521. to 661.; red ditto, 844. to 851. per ton. At Paris, English in plates has stood at 901. Lake Superior at 1041., Chilian at 861., tough cake at 901., and Corceore mineral at 881. per ton. Rough Silerian zinc has been quoted at 191., and roiled at 241. per ton at Paris. This in much favour, and it is a long time since the Dutch market exhibited so animated an appearance as that which it presented during the past month. Early in March, quotations were maintained with some difficulty at 73 fis. per cwt.; but official information having rendered it certain that there was a considerable declinery in the production of the Banca mines in 1862, it is estimated that the total quantity offered at the approaching sale will not be equal to the mean total of previous years. This being the general opinion, speculation has displayed a strong tendency to transactions in tin, and several important affairs have been c

markets, prices have been generally history. At Paris, Banca has eeen quoted 1321, 183. to 1341.; Detroit, 1341.; and English, 1311. to 1322. At Harve, Banca has stood at 1281.; Detroit, 1244.; Peruvian, 1044. to 1081.; and Peruvian mineral, 801.

A great number of dividends in industrial enterprises are now in course of payment. The Central Belgian Company, for the construction and maintenance of railway plant, has fixed its second dividend for 1861.—2 at 6s. per share. The Monceau Blast-Furnace Company has fixed its second dividend for 1861.—2 at 6s. per share. The Monceau Blast-Furnace Company has fixed its second dividend for 1863 at 16s. per share; and the proprietors in the Sacré-Madame Colliery, at Dampremy, will receive 51. 16s. per share (even at present prices this would be nearly 10 percent. upon the investment). We referred last week to the prosperity of the Basségas and Alais Railway.—a line accommodating one of the coal districts of France. It appears that the receipts derived from the carriage of coal and ooke over the line rose from 41,7381. in 1861 to 47,1311. in 1862, while the coal carried rose from 270,793 tons in 1861 to 316,515 tons in 1862. The augmentation here disclosed is divided in the following manner among the coal companies of the district:—The Robiac Company carried in 1861,169,143 tons; and in 1862, 985 tons, showing an increase last year of 27,842 tons; the Alais Forges and Foundries Company carried in 1861, 77,663 tons; and in 1862, 99,949 tons, showing an increase of 23,986 tons; an augmentation of 2803 tons also appeared in the quantity of coal carried for private individuals; but on the other hand, the Bességas Forges and Foundries Company carried in 1861, and only 16,988 tons in 1862,—the general augmentation for the year being thus reduced to 46,022 tons. The products of the two companies of Robiac and Alais have acquired as great development, but anhappily a terrible accident, which occurred in October, 1861, and which many readers will not have forgotten, produced last y minerals for carriage last year, against 2570 tons in 1861, showing a diminution o 1572 tons last year. This diminution is susceptible of very easy explanation. The total of 2570 tons was the product of the first six months of 1861, for after June, 1861, not a single ton of minerals was carried by the company's railway for the remainder of that year. This state of things lasted for 11 months also of 1862, but in December, 1862, to directors endeavoured to come to an understanding with the Terrenoire or Bességes Company, and they now congratulate themselves on having terminated a long law suit, which had been pending, by mutually satisfactory arrangements. A decree of the Chamber of Requests, dated April 8, 1862, having rejected the appeal which the railway company had lodged against a decree delivered in favour of the Terrenoire Company by the Imperial Court of Paris, Feb. 1, 1861, an arrangement was arrived at on the following basis:

The tariffs on iron and pig, a reduction of which had been demanded, will continue in vigour, but the tariff on iron minerals and castina are reduced from 646, to 3846, me and the stipulations of the treaty of Oct. 6, 1855, which formed the object of the litigation. This sum, which might be estimated at about 10007, will be paid in five instalments in five years, without interest. The first annuity will become payable July 1, 1867. Besides the advantage of terminating a judicial context, which had have prolonged itself indefinitely, the new treaty has the effect of maintaining the company's tariff for iron and pig, while the reduction agreed to in another point of view assures the company the carriage in considerable quantities of fron minerals and castina. During the first 11 months of 1862, not a single ton was carried either of fronstone or castina for the Terrenoire Company's but the new arrangement had scarcely been concluded, when in December 998 tons of from minerals were transported, while in 1861, held remained the transaction in more extended proportions. The receipts o

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portanc ewhich the coal trade of France is constantly acquiring, thanks to the steady growth of industrial enterprise among our no longer exclusively martial neighbours.

GREEN AND BLUE SLATE.

It was announced by the Mining Journal that "A company is in course of formation by Mr. Lee Stevens, for working Slate Quarries at Lianfair, Merionethshire, under more than ordinarily advantageous circumstances," and which describes the vein of Green Slate to be of the extraordinary tickness of above 100 yards.
On this subject The Times (April 8) states that "An unparalleled de-

mand for Slates exists at the present time, and so greatly exceeds its supply that all the Slate Quarries which have been for years abandoned in the districts of Harlech, and other parts of Merionethshire, are now being again

worked with most hopeful expectations."

The general demand, in fact, for Blue Slate is so much in excess of the supply that cargoes are occasionally sold at 1t. per ton profit on the invoice price; and the absolute want of Green Slate for Government and other first-class Buildings is so great that the prime cost is about twice that of the quarry rates for the Blue Slate, which have recently advanced 20 per cent. In short, these are expected to be amongst the most profit-able Slate Quarries in Wales.

able Slate Quarries in Wales.

Of the Llanfair Quarries, the Mining Journal also says, "Both the veins of Green and Blue Slate rise to a considerable altitude above the level of the sea; they can be worked without machinery, by driving levels into the side of the hill, through which the produce may be inexpensively obtained; and the shipping place of Pen-y-sarn being within less than obtained; and the shipping place of Pen-y-sarn being within less than a mile of the Quarries, the Slate can be conveyed on board at 1s. per ton. Under these circumstances, we anticipate that the private subscription for shares, which is in progress, will be shortly closed."

Prospectuses and other information obtainable from Mr. Lee Stevens,

36, CANNON-STREET, LONDON, E.C.

REPORT FROM NORTHUMBERLAND AND DURHAM.

REPORT FROM NORTHUMBERLAND AND DURHAM.

APRIL 9.—The amount of goods exported from the Tyne last week shows a considerable falling off compared with the previous week. The quantity of coals exported was 27,962 tons, 2337 tons of coke, 3371 ewts. of iron, and 5293 cwts. of alkali. There was a decrease in coals of 10,076 tons, coke 433 tons, iron 1357 cwts., and alkali 6306 cwts.

The report of the Coal Trade submitted to the general meeting held on Tuesday last, in Newcastle, has been published. The whole report is very instructive, and presents many points of great interest to all connected with the important trade in coal, for which Durham and Northumberland has been so long famous, and, although it has been subject to great depression during the last year, the report still shows that it is the source from which the principal supply of coal, of every description, is obtained. We learn from the report that the shipments of coal have been as follows:—

London. Coast. Foreign.

 Ilows:—
 London.
 Coast.
 Foreign.

 1861.
 Tons 3,373,991
 3,931,494
 3,959,252

 1£62
 3,224,280
 2,866,329
 4,044,181
 Decrease.... 149,621 .. Decrease 165,165 .. Increase 84,929

Decrease.... 149,621 ... Decrease 165,165 ... Increase 34,929

The London and Coast trades show, it will be seen, a trifling decrease; the export trade is, however, fully sustained, being about half of the entire export of coals from the kingdom, which, by the returns of the Board of Trade, has been 8,307,913 tons—the total quantity of coals shipped from the North having been, in 1861, 10,364,647 tons, and, in 1862, 10,134,790 tons, showing a decrease of 229,857 tons.

The different descriptions of coal imported into London during the two years are classed as follows:—

SKARORNE COALS.—1861.

1862.

SEABORNE COALS, 1861.	1802.
House coal	1,693,376
Steam 341,923	
Gas 919,246	886,325
Coking and smith 176,689	137,915
Manufacturing 150,682	135,460
Small 61,589	56,118
Total 3,415,240	3,265,471
COALS BY RAILWAY AND CANAL 1861.	1862.
House coal	42,797
Gas, coking, &c 15,006	
Coke	45,249
Inland	1,321,089
Total	1,416,165
COALS SENT TO LONDON BY RAILWAY (INCLUDING WELSH CO	ALS).
1861 Tons	1,642,502
1862	1,513,296

Is. 10d, per ton, and second is. 11d. per ton lower than in 1861, a difference by the chaldron of about 45. 8d. This is a most enormous reduction, and if continued must be ruinous to many coalcowners.

The report urges upon the coalcowners the necessity of reducing the supply at the various markets, so as to source better prices, and there appears to be a great necessity for some measure of the kind, only the evils attending the partial employment of large concerns where a great establishment exists must urge them forward to the utmost working limit, if any remuneration can be secured.

A sub-committee was appointed, this sub-committee being instructed to lay before the trade, for acceptance or rejection, some organised arrangement, by means of which a better result may be expected to be achieved.

The coalcowners decline to take a leading part in the formation of a "Miners' Permannal Relief Fund" at present. But the report states—"That considering the large annual amount aiready expended by owners of collieries in relief in cases of accident, and for other benevolent purposes, not less than 27,000, per annum, the coalcowners, as a hody, ought to see a relief fund generally supported by the workmen of the entire district, in active operation, and under such management as they can approve, before they can with propriety be called upon to give a belping hand. In that case they may probably conceive it to be their duty to raise a fund is aid of payments aiready in operation." The following resolutions were adopted at the meeting:—

That the report now read be adopted, printed, and circulated throughout the trade. That the trade subscribe the sum of 5001, towards the funds of the British Association, on the occasion of their meeting in Newcastle, in Agust next.

That in consideration of this and of the contribution to the Burradon Fund, and other disbursements on behalf of the whole tynde, the secretary be empowered, in addition to the contribution of the household collieries, to draw upon the gas, steam, and cokin

for the use of the trade, and a copy delivered to each colliery.
this meeting be adjourned for three weeks, to receive at the expiration of tha

High Taylor, jun., and William Hunter.

That the sections of strate axhibited at the industrial Exhibition be reduced and lithographed for the use of the trade, and a copy delivered to each colliery.

That this meeting be adjourned for three weeks, to receive at the expiration of that time the report of the committee.

As the coalowners promise their support to a "Permanent Relief Fund" when fully formed and organised, and in full operation, it is to be hoped that the men will persevere in effecting this, as there can be no doubt that if once formed the general public would also liberally encourage such a fund. With respect to the state and prospects of the coal trade, as shown by the statements in the report, they are certainly not very encouraging. The trade has frem some cause reached a point from which it does not advance, but, on the contrary, appears to have a slight retrograde movement. This is, no doubt, owing in a great measure to the derangement in commercial affairs caused by the American war, and also by the very mild winters experienced of late. A further reduction of the output appears to be absolutely necessary but how this is to be brought about is, perhaps, a difficult matter. That the quantity of coal raised in the North has rapidly increased during the last few years is well known, so that the fact of the supply having outstripped the demand can scarcely excite surprise. The quantity of coals, and there can be little doubt that one-third more than this quantity could be produced by the collieries at present in operation if they were fully employed, and pressed for coal. This appears to be a moderate calculation, when the short time worked at many works is taken into consideration. This would produce for the purpose of vend 13,513,000 signs, so that it is evident the capabilities of the trade are smilleint to supply any demand that may be made upon it for some time to come, and perhaps the only certain mode of earing the present plethora will be the cessation from working new openings and winn

promise much. The latter machine is not, perhaps, applicable to pillar and stall rking, on account of the limited space in the bords for its operation, but can be fully piled in long work. It is the intention of Mr. Nicholas Wood, as stated at the late eting of the Mining Institute, to give this machine a trial, if no other party comes forto promise much.

applied in long work. It is the intention of Mr. Nicholas Wood, as stated at the late meeting of the Mining Institute, to give this machine a trial, if no other party comes forward to do so.

A meeting of miners was held at Horton, near Blyth, on Friday last, when Mr. Richard Fines, of Cramlington, presided. The object of the meeting was to consider the adoption of the rales of "The Northumberland and Durham Miners' Mutual Confident Association," and to lay before the pitmen of the district the necessity of a restriction in the hours of labour, and of organisation amongst miners. The Secretary (Mr. W. Crawford) read the proposed rules of the society, as agreed on at the meeting of delegates. The objects of the association are stated to be the better protection of labour amongst its members, and so far as possible to lessen the present amount of loss of life and health. Each colliery is to send delegates to meetings held in Newcastie half-yearly, and a secretary and treasurer will be appointed. Each member is to pay one penny per fortnight, and each colliery is to take care of its own fands. No colliery is to come out on strike uniess its case is approved of by the managing committee, and if any man loses his employment through advocating the rights of his fellow-workmen he is to be supported by the society so long as he is out of adequate employment. The secretary said that there were now 3500 in the union. These rules, with the acception of some alterations in details, to be afterwards considered by a meeting of delegates, were adopted unanimously. Mr. Joseph Sheldon mowed the first resolution, which aftrand "The good results flowing from a restriction of labour amongst miners."—Mr. H. Henderson seconded the motion. He considered seven hours in the day quite long enough for any man to work. Men had been working in that district for nine, ten, or eleven hours in the day, but he was quite satisfied they would in the long run obtain as much for seven hours' labour. The motion was carried by acclamation.—Mr. T. Wa

REPORT FROM NORTH AND SOUTH STAFFORDSHIRE.

April 9.—The Quarterly Meetings of Iron masters have been held, yes-erday at Wolverhampton, and to-day at Birmingham. As anticipated for the last few weeks, the tone of these meetings has been quiet, it might be said dull. The improvement looked for early in the year has not been ealised, on the contrary, the orders have been steadily worked down, and realised, on the contrary, the orders have been steadily worked down, and most of the manufacturers are slack, and prices amongst all who do not feel rigidly bound by the list sanctioned by the Association of Ironmasters are weaker. Some of the best makers are fairly at work, but as a rule the mills and forges are not going more than from two-thirds to three-fourths of the week. Pig Iron still hangs heavy. A good many buyers made large contracts in January, and are not in a hurry to renew. Makers cannot sell except at a reduction, which they are indisposed to yield, as the material is rather dearer than cheaper. Prices at which business can be done are 2s. 6d. lower, but sellers are not much disposed to make contracts at these rates. The puddlers, whose notices for an advance expired on Saturday, have, it is said, gone in at some of the works, and no doubt will soon be all at work. It is natural that they should feel impatient at the long continuance of a low scale of wages, but their masters are equally dissatisfied at the low prices which have so long prevailed, and an advance on which does not appear more, but less hopeful at the present moment than for some time past.

commitmente or a now scene of wages, but their masters are equally dissatisfied at the low prices which have so long prevailed, and an advance on which does not appear more, but less hopeful at the present moment than for some time past.

A very learned and elaborate History of Leek, which is situated in the Moorlands of Staffordshire, where the undulations swell into hills, which are the frontier steps of the great Penine range, has been published. Mr. John Sleigh, of the Inner Temple, barrister-at law, whose family is associated with Leek, is the author; and there is appended to the work a chapter on the geology of the neighbourhood, by Mr. Thomas Wardle, of Leek Brook. Mr. Wardle describes the geological position of the town as resting on a portion of the Triasale, or Now Red Sandstone, system. Book salt exists to a large extent, but is not much worked, that used being chiefly obtained by evaporation from the brine aprings. The iron ore of the valley of the Churnal, a tributary of the Dove, and on which Leek stands, has of late years been largely taken to South Staffordshire. Mr. Wardle asys—"it was accidentally discovered (or rather, as there are several remains of former workings, re-discovered) by the late Mr. Wm. Bishop, an intelligent Cornish miner, when searching for coal in this district. The ven is found between the lowest coal and the millatone grit, sometimes resting immediately upon the latter. The ore is a hydrated peroxide of from of variable quality, the under portions containing as much as 60 per cent, of iron, others from 30 to 40 per cent." It is from 1 to 22 in. thick, and varies in colour from deep red to a dark greyish brown. The total produce of the Churnal valley ironstone is stated to be now probably about 150,000 tons per annum. Mr. Wardle asys of this ore that it, "from its favourable smelting properties, commands a higher price in the market than the ironstone of the upper measures. It does not require any drying or calcining process previous to smelting; and in this respect it diff

REPORT FROM DERBYSHIRE, YORKSHIRE, AND LANCASHIRE.

APRIL 9 .- Although the Iron Trade continues to assume a quiet tone APRIL 9.—Although the Iron Trade continues to assume a quiet tone, there are evidences of a gradual improvement. Trade, with the exception of the cotton industry, is reported to be more healthy, and merchants confidently express a belief that a good trade will be done during the summer. The Americans are buying largely all kinds of munitions of war, and so far as can be ascertained, both from public and private sources, there is no possibility of an early termination of the war. We have a good demand for rails and railway ironwork of all descriptions. Bars and sheets are only in moderate request, and many complaints are iterated of the practice of underselling, now carried on very extensively by the more needs irononly in molerate request, and many companies are terrace of the practice of underselling, now carried on very extensively by the more needy iron-masters. We may note that the Midland Iron Company have again resumed work, their operations having been suspended, owing to the destruction occasioned by the late boiler explosion. The cost of the repairs, though heavy, have not been nearly so much as was anticipated. The works are being carried out under the able supervision of a number of inspectors.

though heavy, have not been nearly so much as was anticipated. The works are being carried out under the able supervision of a number of inspectors. At the North Derbyshire Mining Company meeting, on Monday, at Chatsworth Hotel, Edensor, for the purpose of considering the position of the company with the view to winding-up or otherwise of the undertaking, Mr. Wass, Matlock, occupied the chair. There was a numerous attendance. The secretary, Mr. J. Fairbourn, of Sheffield, early are port and statement of accounts, which showed a debt of 3001, against the company.—Mr. Eyre, of Chesterfield, said that as a great number of shareholders had refused to pay their calls, it was impossible to carry on the operations of the company, and he thought the best course to adopt would be to wind-up the company. There had be about 20,0001, expended, and yet Wren Park Mine had never yet been fairly tried. Mr. B. Swaffield seconded Mr. Eyre's motion.—Mr. Carrier, of Sheffield, a director, expressed his astoniabment at the motion, and thought fresh capital might be raised to work Wren Park, and he would, therefore, move an amendment that a call of 11, per share be made to continue the development of the mine. Mr. Emsley seconded the amendment, and said he was sorry to find that so many of the shareholders had refused to pay up their calls. He named several, and amongst them the late Chairman, and as the directors believed he would act with them in good faith, they had expended about 3001, more than they otherwise would have done. The amendment and the motion were then put to the meeting, when the resolution for winding-up the affairs was carried.—Mr. Eyre and Mr. Rollinson were added to the list of directors for closing the affairs of the company, We understand the mine and plant will be offered for sale by private contract, and, if necessary, by public auction.

The visit of the Lords of the Admiralty to Sheffield, on Thursday, is an

Mr. Rollinson were added to the list of unbookered for sale by private contract, and, we understand the mine and plant will be offered for sale by private contract, and, an eccessor, by public asction.

The visit of the Lords of the Admiralty to Sheffield, on Thursday, is an event unparalleled in the commercial history of Sheffield. The growth of the Atlas Works is an event equally astonishing. Six years ago the firm employed but 200 workpeople; on Thursday the number had increased to upwards of 2000; and no less than about 35,000, per annum is paid to the Midland Rail-way Company for carriage of the raw material, and for the conveyance of the manufactured article. The transition through which our naval system is passing from wood to iron has compelled the Government to look with great anxiety for manufacturers, and it has now been definitely admitted that Messrs. Brown and Co, are at the head

of the list. The Lords of the Admiralty witnessed on Thursday morning the rolling of a plate of armour 12 inches thick, 40 feet long, and of the enormous weight of eighteen tons. Hitherto the largest plate made has been 10 feet by 4½, and it was thought that this size could not be much exceeded; but it was admitted by Mr. Fairbairn, as his sanguine belief, that with a proper adjustment of the weight to the ship, make the plates thickest where the danger is greatest, and where the men are engaged in word, ling the guns, that our ships can now be made practically invulnerable. The production of Bessemer steel was also largely shown, and a bailef was expressed that this metal can be used in the production of armour-plates, and as it is tougher than Iron, the practical results from its use are expected to be even greater. At least 1000 persons, were present. The programme included rolling in the old mill of a 5½-inch. armour-plate feel He Majesty's ship Royal Sovereign, and a taper-plate for the Enterprise; and a 12-in. plate, and a long 4½-in. plate for H.M.S. Prince Albert; and the operation of making steel for cannon by the Besseemer process.

Meass: Meakin and Sons, of Atteroliffe, Sheffield, have produced a novel kind of steel, out of which was obtained extraordinary results at Shoeburyness, in penetrating warplates. If these bear out the anticipations which have been raised, they will furnish another staple branch of industry.

The Mill Dam Company are doing very well, and they are getting a large quantity of ore. The Mill Town Mine, at Ashover, is going on very satisfactorily as regards the progress being made in getting through the tondatone, but from its extreme thickness it is uncertain when the voin will be reached. A number of gentlemen have cannot a successful to subscribe 1001, and we believe that about 18001, is already guaranteed. This is a very business-like way of proceeding, and as it will prevent anything like a special saturation in shares, the mine will be fairly tested, and if it prove unsucc

bandoned.

The Share Market is very dull, except for banking, gas, and water stock. Midlands are improved, and the traffic returns are about 4000% more than they were in the coresponding week of last year.

REPORT FROM MONMOUTH AND SOUTH WALES.

APRIL 9.—The Iron Trade evinces a fair amount of activity, and the works, generally speaking, are tolerably well employed. The principal makers have a good number of orders in hand, and the smaller works are kept regularly going, although there is not much briskness shown. Nearly kept regularly going, although there is not much briskness shown. Nearly all the works are in a position to greatly increase the make, if a commensurate demand existed, but until that takes place it would be exceedingly unwise to increase the supply. The quotations of the last three or four months continue to be firmly maintained, and the decline in Scotch pig has as yet had but a slight effect on prices in South Wales. The colliers employed at some of the collieries in connection with the ironworks have made an application for an advance on the coronnel of the highest force. employed at some of the colleries in connection with the ironworks have made an application for an advance, on the ground of the higher figure obtained for iron to what was the case 12 months ago. The application, as might be naturally expected, has been refused by the masters, as the wages of the men are now about the same as when rails were 62. to 62. 10s. per ton at the works. The colliers wisely returned to their work, on the promise that they would immediately receive an advance when the state of the trade warranted it. The coal market is moderately buoyant, and there is a healthy and pretty regular demand. Future prospects are encouraging.

that they would immediately receive an advance when the state of the trade warranted it. The coal market is moderately buoyant, and there is a healthy and pretty regular demand. Future prospects are encouraging, more especially as regards steam coal. Several new collicries will shortly be opened, and the means of supply will thus be considerably increased. The shipments for the present month are on the increase, and there are many unexecuted orders in hand. Quotations remain without alteration.

The emigration from this district at the present time is surprising. The tide seems to have set in with unusual vigour, and it appears as if we were to have a repetition of the Australian mania. Scores of persons, chiefly able-bodied men, are leaving weekly, the majority of them to America. What has brought this matter more than usually before the public is the fact that a number of the men have left without giving proper notice, and the masters have in consequence been obliged to resort to legal measures, with the view of protecting themselves against such inconvenience and loss. What puts the conduct of the men in a still worse light is the disgraceful way in which several of them have left. It appears that they were foremen or sub-contractors over particular branches, and when the pay Saturday came, instead of paying their men with the money received from their employers they decamped, taking with them the month's wages of a number of poor workmen. Warrants were immediately issued against the delinquents, but to no purpose, as they had made their arrangements at Liverpool to embark for Apperia without the slighted delay. No doubt, if any of them are captured, exemplary punishment will be awarded, in order to deter others from leaving in so discreditable and dishonest a manner.

The inhabitants of Merthyr have just been showing their gratitude to the princely proprietor of the Cyfarthfa Works, and also to the lord of the princely proprietor of the day, but the unfavourable weather prevented the programme being carrrie

programme being carrried out in its entirety as regards the out-door rejoicings. The vital importance of the renewal of the lease to the town and neighbourhood of Merthy cannot be over-rated, and the liberal spirit shown by both lessee and lessor in the matter deserved a public acknowledgement.

The adjourned inquest on the bodies of Griffith Jones and William Jones, who were drowned at the Bigyn Colliery, Llanelly, was held on Thursday, before Mr. Bonville, the deputy-coroner, and a respectable panel of jurymen. The deceased Griffith Jones was the overman of the colliery, and it appears that he was a sober and orderly mas. Mr. Rees Harries, the proprietor of the colliery, placed implicit confidence in him, ask he had the fall directions of the underground workings. From the evidence, it appears that the water suddenly broke into a part of the colliery, and there was no doubt but that improper boring had been the cause. The rules of the colliery had not been certified by the Government Inspector, but a copy had been sent to the Secretary of Stata. The jury returned a verdict of "Accidental Death." We understand that proceeding are about being taken by Mr. Evens against Mr. Rees Harries for the violation of the Act. Another accident has occurred at the Gethin Colliery. A collier, named Robert Jones, had to use powder, and after preparing the charge, he retired to a pince of safety. After waiting for some time without any result, he incautiously walked back to the charge, he retired to a pince of safety. After waiting for some time without any result, he incautiously walked back to the charge, and when he had just reached the spot the explosion occurred, and he was frighfully burned about the face. The deceased died in a few hours after. This is another instance as to how cautious colliers ought to be who have to use powder.

An Oil Well in Walles.—A strange discovery has just been made at Blaina, Monmouthshire. A correspondent states that as the horse-keeper employed by Mr. W. Lewis, contractor, was pumping wate

trade. Comparing the trade of the port for the first quarter of the current year with the corresponding period last year, we have the following results:—Total number of vessels entering the port for the past three months, 1193, with an aggregate registered tomage of 149,340 tons, and the shipping rates received were 3864. 17s. 7d.; the corresponding period of 1862—1478 vessels, with a registered tomage of 172,497 tons, and the shipping rates were 41991. In. 3d. Nearly the whole of the vessels entering the port take out back freights of either coal and from, and thus the staple trades of the district have enjoyed a fair degree of prosperity during the past three months.

The returns of Neath and Llanelly have not yet been issued, but trade in each port has been brisk.

MINING IN IRELAND-No. III.

MINING IN IRELAND—No. III.

[FROM OUR CORRESPONDENT IN THE COUNTY OF CORE.]

If a man does mischief gratuitously, or inadvertently, the public might be inclined to forgive him; but when an authority is paid for doing mischief to the public, and preventing the outlay of capital in the legitimate development of the resources of the country, it alters the question altogether. In a former communication I romarked that Irish capitalists in general were inclined to invest capital almost anywhere but at home. Now, there must be some cause to prevent Irish capitalists from investing their money at home, especially in mining; the cause, however, I believe to be an erroneous idea prevailing in Dublin, and other large towns, that the mines in the country are not lasting in depth, and that the public are impressed with this erroneous idea in consequence of the so-called Geological Survey of this country. I have often conversed with gentlemen in Dublin on the subject of mining, and endeavoured to convince them that a better field for the bona fide investment of capital than this country affords did not exist; but the general reply to all arguments on the subject has hitherto been—What can you expect to find in the districts you mention, when such men as Griffith, Jukes, Wilson, and the other small fry of geologists, have laid down the law that no mines will be found there? The public, therefore, are full of doubts on the subject, and keep aloof; and it is not to be wondered at that they should do so, after reading the following extracts from Prof. Jukes's "Notes on the Mines of the South-West of Cork":—

"However that may be, there was a great mechanical deposition of copper ore in the beds formed at the bottom of the water, so that all the grits and slates were here and

full of doubts on the subject, and keep aloof; and it is not to be wondered at that they should do so, after reading the following extracts from Prof.

Jukes's "Notes on the Mines of the South-West of Cork":—

"However that may be, there was a great mechanical deposition of copper ore In the bods formed at the bottom of the water, so that all the grits and slates were here and there impregnated with copper ore over all the district, stretching from Waterford through Cork into Kerry. This copper district was, like most materials deposited from water, not a continuous sheet, but occurred in patches in different beds of grit and through a thickness of 300 or 400 ft. over all that area. None of the beds of grit and through at thickness of 300 or 400 ft. over all that area. None of the beds of grit and through at thickness of 300 or 400 ft. over all that area. None of the copper ore was distincted and mad, deposited side by side over the area. The copper ore was distributed here and there among these beds as a copper sand or copper mad, mixed with the silicloss and argifisecous sands and clays. Some action subsequently determined the surgestion of some of the exact nature of which we are ignorant, and thus new "mineral velns," or true "lodes," were formed here and there about the country. Some of these fissures and cracks contain strings and bunches of exceedingly "ritore;" but, with the exception of the Berchaven Mines, none of the lodes (whether true or false) of the south-west part of the country of Cork have yet been proved to have a sufficient quantity of ore in any one locality to make a "rich" mine. The very fact of the wide diffusion of copper ore in small quantities over so large an area is against, rather than in favour of, the probability of rich mines being found. It shows that the copper ore occurs chiefly as a mechanical deposit, derived from the waste and destruction of some original "mineral vein" district, the fact of small velns and strings of rich ore occurring here and there socially as a mechani

at home, instead of running after foreign schemes and bubble companies, at home, instead of running after foreign schemes and bubble companies. TRUTH'S ECHOES, OR SAYINGS AND DOINGS IN MINING. The Mining Share Market has not been very active during the past week, in consequence of the Easter holidays; but, from the enguirise being made, there is every reason to anticipate an improved market before the expiration of another week, both in divisional and the leading progressive mines. Fluctuations have taken place in several West Stross and Corpse Hitts. have been more in demand, and devances have taken place.—Wirelas Stross have remained remarkably quiet, and continue to be quoted as last week.—East Bassers have improved in consequence of the non-delivery several abares have been bought in.—Tirscuorra have varied, but left off at a slight with the strong of the strong of the strong of the strong and Currents.—Cooks Riccuss and Currents have been bought in.—Tirscuorra have varied, but left off at a slight with a strong of the strong of the

year. The lode in Pryce's engine-shaft, sinking below the 177, is worth 751, per fm. The 177 end west is worth 121, leaving stopes worth 201, the same level east is valued at 151 in the end, with two stopes worth respectively 301, to 351, per fathous and a winze 251. The 165, east and west, are equally productive, whilst other places of operation are in good courses of ore. It is highly gratifying to find the mine has overcome the long and numerous difficulties, and likely to become a permanent and paying one again. East Rosswansk continues to look remarkably well, and is, without doubt, opening out for a permanent mine. The lode in the engine-shaft, which has been disordered for some time past, is getting more settled, and is worth from 151, to 201, per fathom for the length. The 65 ends, east and west, have been disordered, but are looking more promising, with appearances strongly indicative of great improvements. There is a good lode in the stope west. The 55 west is looking very well indeed, the end being worth full 201, per fathom, and the two stopes full 451, per fm. The winze and stope in the 55 east are valued at from 401, to 451, per fm. Together.

PROSEER (Breage): The lode in the 40 west is very much improved, and from present appearances and value there is every reason to deem this discovery one of great importance. They have driven several feet on the lode, and it continues to improve as opened. The general opinion is that this is a new course of tin, as it has not been seen in any of the levels above. The present end is valued at from 151, to 201, per fathom. The 50 east has also improved, and now worth from 101, to 121. Other places continue the same as last noticed.—St. Just Consols: The directors, at a meeting held for the purpose, have allotted the shares in this adventure. The applications for shares the aveceded the number for appropriation, and even since the aliotment several hundreds have been applied for. The operations on the mine are going on in a most astisfactory and encouraging mann

From Mr. George Batters: — The market for Mining Shares has, during the week, been comparatively quiet; the holishys have greatly interfered with statishary has taken many of the leading dealers ont of town, which has further tended to limit dealings. Prices have in consequence suffered to a small catent. Exer Canabate with the control of the contro

MINING NOTABILIA.

MINING NOTABILIA.

[ENTRACTS FROM OUR CORRESPONDENCE.]

The SILVER-LEAD DISTRICT OF THE CARDIGANSHIRE MINES is looking very prosperous. In CWM EBFIR there are new discoveries of ore ground, giving a character of great permanency to the property. At EAST Darriers, formerly the Great Cwmsylniog Mine, there are massive courses of silver-lead running eastward, under the old workings on the surface, which are very extensive. There is a discovery of silver-lead ore in Oliver's adit, the deepest of the Gireat Darrier and the lodes running north-west are standing whole to the surface.

Me are glad to find, from the report of the new mines in Cardiganshire, that the Silver Mountain is opening up well, the yield of the lode at the bottom of the engine-shaft being upwards of 40% worth of ore to the fathom.

At Cwm Darrier he lode only 7 fms. from the surface yields a great quantity of rich silver-lead ore; the block sooming up are nearly solid, and as much as a man can lift; this seems likely to form a good mine. The ore for the present will be created at West Cymsymlog, where the mill it enarly erected, and will soon be at work.

LLANIDLOES, APRIL 6.—Having a leisure hour or two, I took a stroll over the hills in this locality, and winding my way home I came in sight of NANT-LAO MINE, and having heard that it had lately greatly improved I took the liberty to go over the surface, and was pleased to find that the reports which recently appeared in the Journal are faily borne out by the produce of lead ore at surface; in fact, the solid ore and matrix accompanying has led me to believe that the mine will in a short time

give entire satisfaction to all interested. The fact that the ore is being raised from a deeper level than has hitherto been attained in this neighbourhood will, I hope, be an example to the surrounding mine proprietors, and prompt them to prosecute their works at deeper points, when, undoubtedly, the same results as those now obtained in Nanty-Iago will be realised. I should say the quantity of lead ore on the floors is about 30 tors, also blends of rich quality, lately obtained from sinking and driving. Alone this must be cheering to the proprietors, and I hope will attinuitate others to follow the spirited manner and mode of working carried on here. I was an assistant here some years ago, and always anticipated the present results; and I hope the manager will in a short time adopt measures to prosecute the mine at a much greater depth.

EAST ALFRED CONSOLS has improved in several places, and the mine altogether looking much better.

EAST ALTRICO CONSOLS has improved in several places, and the mine substitute robusting with better.

As present a more than is propriety of this 2.a.d. is quantized to the mightoer of the 10th Aspectate, and even the propriety of this 2.a.d. is quantized in the mightoer of the 10th Aspectate, and even the propriety of this 2.a.d. is quantized the has placed and the property of the 2.a.d. is quantized the mine the control of the property of the 10th Aspectate of 10th Aspecta

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THE WEST OF ENGLAND COAL AND IRON COMPANY
(LIMITED).

To be incorporated under the Companies Act, 1862, whereby the liability of shareholders is limited to the amount unpaid on their shares.
Capital £100,000, in 20,000 shares of £3 each.
Deposit £1 per share on application, and £1 per share on allotment.
Future calls will not exceed 20s. per share, as intervals of not less than three mouths.
In the event of no allotment being made, deposits to be returned in full.
CHAIRMAN-T. W. COWAN, Eaq., Kens Ironworks, Greenwich.
BANKERS—The Metropolitan and Provincial Bank, Corabill, London,
BROKER—Mr. A. J. Young, 3, Bartholomew-lane, Bank, London.
TEMPORARY OFFICES.—7, EARL STREET, BLACKFRIARS, LONDON, E.C.

TEMPORARY OFFICES, -7, EARL STREET, BLACKFRIARS, LONDON, E.C.
This company is formed for the purpose of working collieries and iron mines in the
Forest of Dean.

, reports, and forms of application, to be obtained at the offices of the

THE GREAT DEVON AND BEDFORD (COLCHARTON)
COPPER MINING COMPANY (LIMITED), TAVISTOCK, DEVON.
Incorporated pursuant to the Companies Act, 1862.
Capital, 250,000, in 10,000 shares of £2 10s. each.
Deposit, 10s. per share on application, and £1 on allotment.
BANKERS—The City Bank, Threadneedle-street.
BROKER—Septimus Parroit, Esq. 1, Crown-court, Threadneedle-street.
MANAGEN—Capital George Biohards.
SECHETARY—Mr. H. Brook.

OFFICE-11, TOKENHOUSE YARD, E.C.

The SECOND GENERAL MEETING of shareholders will be HELD at the Lon Tavern, on TUESDAT, the 14th inst., at Twelve noon, and operations will be or menced at the mine a few days afterwards; after which time no further applications the few remaining shares will be received.

merous reports, with preceived, and forms of application for shares, may be of d at the office of the company, and of the broker.

THE CARLOGGAS TIN MINING COMPANY (LIMITED) THE CARLOGGAS TIN MINING COMPANY (LIMITED)

Registered under the Companies Act, 1862, whereby the liability of each shareholder is limited to the amount of his shares.

Capital, £15,000, in 3000 shares of £5 each.

Deposit, 10s. on application, and £1 on allotment.

DIRECTORS.

HANS JAMES HAMILTON, Esq., Rose Bank, Hanwell, Middlesex.

JOHN KIRKHAM, Esq., C.E., 109, Euston-road, N.W.

JAMES FEARCE, Esq., 29, Threadheedle-street, and Wimborne, Dorset,
THEODORE RICHARD SCHWEITZER, Esq. (R. T. Schweitzer and Co.), 26, Throg morton-street.

norton-street.

Joseph Ennjamin Wright, Heath Lodge, Clapham.

Bamers—The Metropolitan and Provincial Bank (Limited), 75, Cornhill, E.C.,

Solicitor—James Bourdillon, Eq., 30, Oreat Winchester-street.

Solicitor—Bachera—Mr. W. Battye.

OFFICES,—33, GREAT WINCHESTER STREET, E.C.

PROSPECTUS.

This company is formed for the purchase and working of the Carloggas Tin Mines, tusted in the parish of St. Stephen's, St. Austell, in the county of Cornwall, a district cell known among mineralogists as being rich in it in mineral deposits. The sett is very tensive, and held under lease from Lady Grenville, for a term of 21 years, at a royalty

well known among mineralogists as being rich in tin mineral deposits. The sett is very extensive, and held under lease from Lady Grenville, for a term of 21 years, at a royalty of 1-15th.

The promising character of the mines to be worked by the present company fully warrants the expectation that large returns will be realised; five tin lodes are known to pass through the sett, and on one of which operations have been carried on to some extent by the former workers.

The mine is situated on the junction of granite and kilias, so favourable for the production of metallic minerals, particularly tin.

The ancient excavations on the backs of the lodes give evidence that vast quantities of tin have been raised on the property, and recent explorations demonstrate this sett to be of no ordinary kind, it being merely a question of capital for a fuller development to bring it into a dividend state.

The reports annexed are from men of long practical experience in the district; their testimony as to the highly promising character of the property, and the great local advantages by which it is surrounded, will be read with interest, and leaving nothing to be urged by the directors, except an assurance of their strong confidence as to its value and that ere long it will bear comparison with any of the rich mines opened in the district.

A contract has been entered into for the purchase of the property on most favourable terms—viz., for 6000/L (2500/L in canh, and 2500/L in paid-up shares).

The capital of the company is fixed at 15,000/L, in 3000 shares of 5L each; it is, however, estimated that 2/L per share will be ample for all purposes, to place the mine in a profitable state, as immediate returns of tin can be made.

The company having been registered with timited liability, no shareholder can, under any circumstances whatever, be made responsible for a greater amount than that of the shares to which be subscribes.

A considerable portion of the capital has already been subscribed.

The directors propose to commence op

THE ROARING WATER MINING COMPANY (LIMITED)
Incorporated pursuant to the Joint-Stock Companies Act, 1862.
Capital, £18,000, in 6000 shares of £3 each.
10s. to be paid on application, and 10s. on allotment.
DIRECTORS.
Sir JAMES DOMBRAIN, Monkstown, and 20, Molesworth-street, Dublin.
Col. BUSH, 55, York-terrace, Regent's-park (Director of the Oriental Inland Steam Navigation Osmpany).
CHARLES T. HAWKINS, Esq., 12, Broad-street, Oxford (Director of the St. Just Mines).

Mines).

WM. OGILVIE, Esq., Cushion-court, Old Broad-street (Director of the St. Just Mines).
Capt. PAUL, Queen's-road, Bayswater (late of the Knockmahon Mines).
H. CHURCHILL, Esq., Deddington, Oxfordshire (Director of the Strand Hotel Company).
BANKERS—London and County Bank, Lombard-street.
SOLICITORS.
Messrs. Mayrick and Gedge, 4, Storey's-sate, Great George-street, Westminster.
BROKERS—Messrs, Webb and Geach, 8, Finch-lane, Threadneedle-street, London.
MANAGER—Mr. Thomas Cooper Smith.

OFFICES,-6, WARNFORD COURT, THROGMORTON STREET, CITY.

OFFICES,—6, WARNFORD COURT, TERROGMORTON STREET, CITY.

The object of the company is to work the copper mines of Roaring Water, situated in the parish of Aughadown, in the barony of West Carberry, county of Cork, a district well known among mineralogists as being rich in mineral deposits. The set extends over 1½ mile in length, and ¾ of a mile in breadth, and is held for a term of 31 years from July last, at a rogrality of 1-18th, with a clause for renewal, on payment of a comparatively small fine at the end of that period for the same term.

The promising character of the mines proposed to be worked by the present company fully warrants the expectation that early returns will be realised; there are 19 well-defined lodes upon the sett, composed principally of yellow and peacock copper ores, rich specimens of maiachite, friable quarts, and gossan of the finest description, from which specimens of rich ore have been taken, which on assay have been found to contain a large proportion of silver, and strong traces of gold, and as the geological formation is identical with that in Wales, from which so much gold is being now extracted, there is severy reasonable ground to expect gold will be found on this property. These lodes, seyond all doubt, are a continuation of the rich veins of copper now working with such great promise and success at the Schull Ray, Cuppagh, and Ballycummisk Mines, all of which there can be no reasonable doubt are a continuation of the Beserhaven locks. The latter mines are said to have yielded from their commencement copper ore of the value of 2,000,000. steriling. It is well known that the quality of the ores raised the set of a far higher standard (nearly double) than the average produce of the Cornish ores; this may be tested by a reference to the Swanses assis list.

Upwards of 4000 shares are subscribed for. The directors will receive applications for the remaining portion through the bankers, the solicitors, or the manager of the company, from whom prospectuses and forms of application

THE CAMBORNE DISTRICT, AND CROWAN CONSOLS.
TO THE EDITOR OF THE MINING JOURNAL.

SIR,—I have no wish to trespass on the path of the "Cautious Man," although I am sure that he will not blame me for giving good advice to your readers, as he has done, from time to time; but I am anxious to draw the attention of your correspondents to the following opportunity for a good, honest investment.

The Canwan Consola Mixing Coxpast (Laurizzo) was brought out at the beginning of the year, for working with vigour and modern skill an exceedingly valuable property, which had been closed for very many years, in consequence of the last workers not having the funds to purchase a steam-engine of sufficient power to drain the mines. They had erseted a wheel, but found it inadequate for the purpose required, and meeting with an accident at the same time, which killed four of the men, they became disheartened; and although their operations had been attended with the most successful results up to that moment, yet they were now saddled with expenses, and, being probably divided amongst themselves at to the future working, they zero un the sett.

that moment, yet they were now saddled with expenses, and, being probably divided amongst themselves as to the future working, they gave up the sett.

The present company have carried on operations during the short period they have had possession with economy and judgment. They are now erecting an engine to fork the mines, and when this is done they will have most spiendid results. The opinion given by the acknowledged authorities who have inspected the sett is unqualified; indeed, there is no doubt of its being a magnificent property.

I, therefore, call the strention of "cautious men," careful men, and "all other men," to the prospects held out. Let them send their agents to look at the mine, and see the rich gossan on the backs of the lodes, as well as the magnificent spectmens of ore broken from the shallow levels. Consider the district, the richest in Cornwall! Look for a moment at what the surrounding mines have done, and are doing, and then I am certain there will be but one opinion formed, and that will be that if the work is continued to be carried on with the same vigour as at present success must be certain.

see carried on with the same vigour as at present success must be certain.

I do not know that there are any shares in the London market, but investors should be certainly obtain some if possible. That a great rise will soon take place in them it do conclude, a gain repeat, send your own inspecting agent to Crowan and be guident to conclude, a gain repeat, send your own inspecting agent to Crowan and be guident.

require a prophet to predict.

to conciled, I again repeat, send your own inspecting agent to Crowan and be guide
his advice, and you need not fear the result. I must not omit to mention that sinc
mine has recommenced working all the adjoining acts have been taken up, no be
of of what is thought of the locality; indeed, I find in the locality the shareholder
most sanguine of the results, when the mine is opened up. In my opinion we shall
crowan Council take a leaking position among the mines of this oriebrated district pre most sanguine of the see Crowan Consols take seems a very long period. London, April 6, 1863.

HARLES DAVEY AND C SAFETY FUSE MANUFACTURERS, ST. HELEN'S JUNCTION, LANCASHIRE. C 0., Royal School of Mines.

ROYAL SCHOOL OF MINES-NOTICE.—The REMAINDER of the COURSE of LECTURES on GEOLOGY (wenty-four) will be given.

J. BEETE JUKES, M.A., F.R.S., on Mondays, Tuesdays, Thursdays, and, at Half-peat Oue, commencing on the 13th April. During the course lecture given in the field. Fee, £2.

TRENHAM REEKS, Registrar.

PRACTICAL GEOLOGY—KING'S COLLEGE, LONDON,
PROP. TENNANT, F.G.S., will COMMENCE a COURSE of LECTURES or
WEDNESDAY, April 16, at Nine a.m., having especial reference to the APPLICATION
of GEOLOGY to ENGINEERING, MINING, ARCHITECTURE, and AGRICULTURE.
THE lectures will be continued on each succeeding Friday and Wednesday. For R. W. JELF, D.D., Prin

CAUTION—TO BANKERS, BILL BROKERS, AND OTHERS.—Whereas BILLS OF EXCHANGE OF PROMISSORY NOTES have been and may be PUT INTO CIRCULATION by Mr. DANIEL PEARSON, PUR-PORTING to be ACCEPTED or MADE by Messes. "LLOTD, PEARSON, AND LLOTDS," or "THE MADELEY COAL AND IRON COMPANY," of Madeley, in

Staffordshire.

And whereas the PARTNERSHIP between between Messrs. LLOYDS and DANIEL PEARSON has been DULY DISSOLVED, and an INJUNCTION has been GRANTED by the Court of Chancery to RESTRAIN the said DANIEL PEARSON from DRAW-ING, ACCEPTING, ENDORSHING, GIVING, or NEGOCIATING ANY BILL OF EXCHANGE or PROMISSORY NOTE in the NAME of "THE MADELEY COAL AND IRON COMPANY," or in the name of "LLOYD, PEARSON, AND LLOYDS," or in any other name whereby the Messrs. LLOYDS might be randered liable.

All PERSONS are, therefore, CAUTIONED AGAINST DEALING with ANY SUCH BILLS OF EXCHANGE or PROMISSORY NOTES; and it is requested that information of any attempts to negociate the same may be immediately given to Messrs. R. and S. MULLENS, solicitors, No. 7, Ponitry, London, E.C.

nformation of any attempts to negociate the same may be im t. and S. MULLENS, solicitors, No. 7, Poultry, London, E.C. London, March 18, 1863.

MERSEY DOCKS AND HARBOUR BOARD.—Notice is hereby given, that the CHAIN AND ANCHOR TESTING WORKS, at BIRKEN-HEAD, will be BROUGHT INTO OPERATION after the 51st inst. Copies of the regulations and tables of charges in connection with both the Liverpool and Birkenhead works will be furnished on application at either of the chain testing establishments. Any chains received at the Liverpool Chain Testing Works prior to the 31st inst. will be dealt with under the regulations at present in existence.

Dock Office, Liverpool, March 2, 1863.

NOTICE IS HEREBY GIVEN, that the NEWEN'
HIGHWAY BOARD will MEET on FRIDAY, the 17th day of April inst., a
the TOWN HALL, NEWENT, in the county of GLOUCESTER, at Two o'clock i
the afternoon, for the PURPOSE of ELECTING a SKILFUL and PRACTICAL SUR
YEYOR for the DISTRICT.

YEYOR for the DISTRICT.

The salary will be £120 per annum, and the surveyor will be required to devote the whole of his time to the duties of the office. The district comprises an area of 120 miles. Surveyors seeking the appointment must send their names, addresses, and testimolais to me on or before Thursday, the 16th inst.

By order,

C. V. COOKE, Clerk to the Board.

Dated Newent, April 2, 1863.

Dated Newent, April 2, 1863.

QUEBRADA LAND, RAILWAY, AND MINING COMPANY (LIMITED).—The Directors of the above Company being DESIROUS of CONSTRUCTING a MINERAL TRAMWAY of about 30 miles in length, in connection with their mines in Venezuels, will be glad to enter isto communication with CONTRACTORS who may be willing to EXECUTE the WORK. Such information and details as the directors at present have may be obtained at the offices of Mesers. Dynaron and Ranken, No. 9, Broad-street-buildings, City.

TO CAPITALISTS.

CLEVELAND BLAST FURNACES.—The ADVERTISER DESIRES the CO-OPERATION of a FEW GENTLEMEN to JOIN in the ERECTION of FURNACES on a most ELIGIBLE FREERIOLD ESTATE, commanding 16 ft. of the valuable CLEVELAND BANDS of IRONSTONE. Arrange-

manding 16 ft. of the valuable CLEVELAND BANDS of IRONSTONE. Arrangements have been made for the purchase, by which the stone stands at the minimum of 3d, per ton only, and with practical gentlemen and one-half the requisite capital. The furnaces being on the top of the stone itself, abundant water and slag deposit ground on the estate, coke, coal, and limestone at the minimum rate of the district, the York-shire and Cleveland Railway, and a station in front of the pig beds, &c., present a combination for economic production not to be excelled.—Address, "H. C.," MINING JOHN MAL Office, 26, Fleet-street, London, E.C.

TO SHAREBROKERS, MINING ENGINEERS, &c.

THE CLEVELAND IRON DISTRICT.—A favourable OPPORTUNITY is PRESENTED to FORM a COMPANY for the MANU FACTURE of IRON in the celebrated IRON DISTRICT of CLEVELAND, NORTHY YORKSHIRE. The property is situated on a line of railway, and contains the well known beds of Cleveland iron.—For particulars, address, "H. E.," MINING DOR MALORIDES, S. Fleet-street, London, E.C.

WISHING TO COMMENCE MANUFACTURERS, OR PARTIES WISHING TO COMMENCE MARINE TUBE MANUFACTURING.—The ADVERTISER SEEKS a SITUATION as MANAGER in the WORKING DEPARTMENT. Understands the machinery and furnaces, or would undertake to erect machinery and furnaces for any party wishing to commence in the above trade. Can give a statement of profits to be derived from the trade, and can have a first-rate character of some years standing.—Apply by letter, "X. Y. Z.," Post-office, Walsall.

TO CAPITALISTS.—WANTED to BORROW, a LOAN of SIXTEEN to EIGHTEEN THOUSAND POUNDS on a PRECHOLD ESTATE of very ample value, worked as a COLLIERY.—Apply by letter, addressed to Messys. MOULTON and Sow, law stationers, 37, Chancery-lane, London, W.C.

TO MINE AGENTS AND OTHERS.—FOR SALE, a bargain about ONE HUNDRED FATHOMS of NEW % in. B.B. CHAIN. Also FIFTY FATHOMS of 9 in. CAPSTAN ROPE, nearly new.—Apply at NORTH JANO

FOR SALE, the IRONWORK COMPLETE for a LARGE BLAST FURNACE, including wrought-iron shell, gallery, tuyeres, pipes, heating BLAST FURNACE, including wrought-iron shell, gallery, tuyeres, pipes, heati ttove, &c., all ready for erection, made for abroad by the eminent firm of Cochrane at Co., Staffordshire.—Apply to Mr. WM. BARNINGHAM, Pendleton Ironworks, Manchestee

NORTH AND SOUTH WALES.

AND VALUER AND ESTATE AGENT.—MINERAL PROPERTY carefully SURVEYED, INSPECTED, and correctly REPORTED UPON. First-class references in London and the country.—Address, Mr. R. W. Jonis, Bryn Hyfryd, Llock, near Holywell, North Wales.

TO THE SHAREHOLDERS OF THE NORTH HAFOD ABERNANT, AND WEST SILVER BANK MINES.—The shareholders in the above mines can have some VALUABLE INFORMATION as to HOW the MONEY HAS BEEN SPENT at these MINES, by applying to Mr. Jas. NAYSHITH manager, Abermann Ironworks, Aberdare, who is a large shareholder in two of the mines himself.—Abermann, April, 1863.

TINCEOFT MINING COMPANY.

1, WINCHESTER BUILDINGS, E.C., LONDON.

Notice is hereby given that a DIVIDEND of FIVE SHILLINGS PER SHARE has this day been DECLARED on the shares of this company, PAYABLE on and after the 13th inst.

By order of the board, HIRAM WILLIAMS, Sec.

THE CAMBRIAN STONE AND SLAB COMPANY
(LIMITED).

Capital £20,000, in 2000 shares of £10 each, of which only 1000 shares
will be at first issued.

Deposit £1 per share, and £4 on allotment.
No call for six months.

Registered under the Companies Act of 1862.
DIRECTORS.

Lord HENRY GORDON, Chairman of the Wellington Life Assu

ham-place, E.C.

RICHARD LAWEENCE, Esq., Connaught-square.

Major SHAW, Commercial-road, Peckham.

J. E. PANTER, Esq., Lee Park, Blackheath.

JOSEPH HOPGOOD, Esq., 15, George-street, Hanover-square, and St. Albans.

BANKERS—Alliance Bank of London and Liverpool, Lothbury.

SOLICITOR—H. Fryer, Esq., Gray's lnn.

SECRETARY (pro tem)—Mr. P. O'R. Robertson.

OFFICES,—86, KING WILLIAM STREET, LONDON, E.C.

This company is formed to carry on and extend a valuable stone and slab quarry, situate near Fortmadoc, in the county of Carnaryon.

The produce of the quarry is of a first-class character, and contracts could be now taken sufficient to employ the quarry for many years.

The directors will proceed to complete the purchase of the property and proceed with

The directors will proceed to complete the purchase of the property and proceed with the works as soon as the first thousand shares are subscribed for. Such not being the case, the whole deposits will be returned free from any deduction. Applications for shares to be sent to the bankers, or, if more convenient, to the sere-tary of the company.

No bonus is paid in any way for promotion expenses, and the sum to be paid for the estate includes all preliminary expenses.

A considerable portion of the shares are airceady subscribed for privately.

Full reports on the quarry, and forms of application for shares, can be be obtained on application to Ross and Co., 4, Lothbury, E.C.; and the secretary, at 86, King Williamstreet, E.C.

THE EXHIBITION OF ALUMINIUM AND ALUMINIUM AND ALUMINIUM BRONZE.

TWO THOUSAND SPECIMENS, illustrating the application (ornamental and useful) of these interesting metals are now on view at—
MAPPIN BROTHERS' NEW BOOMS, 222, REGENT STREET.

Admission by card.

A SSAYS AND ANALYSES OF ORES, METALS
MANURES, &c., on the most moderate terms, and with the atmost accuracy
List of fees per post, on application.

JOHN LONGMAID, CITY LABORATORY AND ASSAY OFFICE,

31, THROGMORTON STREET, E.C. TO INVENTORS.—All INTENDING PATENTEES should produce the PRINTED INFORMATION recording PATENTEES should produce the PRINTED INFORMATION recording PATENTEES should be a second produced by the printed in the printed by PROCUE the PRINTED INFORMATION regarding PATENTS, their COST and the MODE of PROCEDURE to be adopted, ISSUED GRATIS by the GENERAL PATENT COMPANY (LIMITED), 71, FLEET STREET, LONDON.

E. MARSDEN LATHAM, Sec.

CARNARVONSHIRE, NORTH WALES.
EXTENSIVE and HIGHLY PRODUCTIVE COPPER MINE FOR SALE, including all the VALUABLE PLANT, MACHINERY, BUILDINGS, TRAMWAYS, IN-

MR. W. DEW WILL SELL, BY AUCTION (unless previously disposed of by private contract, in which case due notice will be given), at the Hotel, Banger, on Wednesday, the 15th day of April, 1863, at Three o'clock in

All that VALUABLE and far-famed COPPER MINE, worked by a comp to CWMDYLE COPPER MINING COMPANY (LIMITED), situate on the CWMDYLE COPPER MINING COMPANY (LIMITED), situate on the north-cast side of the great Showdon, now in full operatios, together with the costly Ma-CHINERY, CRUSHERS, STAMPS, WATER WHEEL, WAGONS, TRAMWAYS, INCLINES, DEESSING HOUSES, ENGINE SHED, BARRACKS, SMITHS' and CARPENTERS' SHOP, MINERS' COTTAGES, as well as ALL INTEREST in the LEASE, which gives exclusive right of searching and digging for all other minerals in this acknowledged rich and productive district, comprising an area of 2000 acres, or thereabouts, the whole of which is thickly interspersed with veins of quartz, nearly the same nature and colour as that found in the Merionethalire gold mining districts. The mine has been worked to advantage for the last five years by a company of limited capital, during which, with comparative few hands, upwards of £3000 worth, of copper has been sent into market. The present lodes are of great size, and exceedingly rich; and from reports made by eminent mining engineers and practical miners, a further yet moderate outlay of capital is all that is necessary to render this mine one of the largest and smost profitable in the Principality.

Principality.

The mine is hold under a lease from Sir Richard Williams Bulkeley, Bart., M.P., for a term of 35 years unexpired, at a royalty of 1-16th.

The whole of the works and machinery are in the most complete and efficient state, full particulars of which, giving asstifactory reasons why the present company are parting with it, may be had of the secretary, Mr. R. STRWART; at the MINING JOURNAL office, 26, Fleet-street, London, E.C.; and of Mr. DEW, auctioneer, Bangor.

The agent, Mr. OWEN OWENS, residing at Pen Pass, near Liamberts, will show intending purchasers over the mine, and furnish them with every further information that they may require respecting the same.

The directors refrain from publishing, as is usually done, any florid reports, feeling confident that personal inspection will more than satisfy persons competent to Jauge as to the genuineness and eligibility of this property as an investment.

THE TORBANEHILL MINERAL. FOR SALE, BY AUCTION, A QUANTITY OF AT LEAST SEVERAL THOUSAND TONS OF THIS CELEBRATED MINERAL.

THOUSAND TONS OF THIS CELEBRATED MINERAL.

MESSRS. P. BURN AND CO. WILL SELL, BY AUCTION, within the sale rooms, 9, Exchange-place, Giasgow, at Twelve o'clock noon, on 16th April next, a LARGE QUANTITY of the MINERAL in question, in lots to suit purchasers. The quality will be equal uniformly to the best in the market. Samples will be seen, and particulars learned, on application to Messrs. P. Burn and Co.; or to Mr. James Robertson, mineral manager for Mr. Gilleffer, Torebanchill House.

GREAT LAXEY MINING COMPANY, ISLE OF MAN. MR. RABY WILL SELL, BY AUCTION, at his Auction Mart,
Dramgold-street, Douglas, on Thursday, the 16th April next, a NUMBER of
SHARES in the ABOVE-NAMED COMPANY, the property of the late John Colton
Tupper. By order of John Robert Oliver and W. Berey, trustees of the said estate.

The Auction to commence at Twelve o'clock.

A. W. ADAMS
L. W. ADAMSON

Advocates.

TON MAWR ESTATE, AND MINERALS UNDER WAINLLWYD, NEAR NEATH, GLAMORGANSHIRE.

MR. ROBERT EVANS, of Bridgend, near Neath, Auctioneer, begs to announce that he has been instructed to SELL, BY PUBLIC AUCTION, in two lots, at the Castle Hotel, Neath, on Wednesday, the 22d day of April, 1863, at

two lots, at the Casile Hotel, Menin, on Weinesday, are zet day of April, 1939, at Three o'clock,—
A VALUABLE FREEHOLD LANDED and MINERAL PROPERTY, comprising a FARM HOUSE, FIFTEEN COLLIERS' COTTAGES, shop, store, and school-room, and about ONE HUNDRED AND TWEINTY ACRES of PASTIRE and WOOD, LAND, together with the MINES of COAL, now being worked, IRONSTONE, and OTHER MINERALS underlying the same, known as the TON MAWR ESTATE.
And also the MINES of COAL, IRONSTONE, and OTHER MINERALS, under a neighbouring property, known as WAINLLWYD, containing about 78 acres, the whole being let to respectable tenants, at rents and royalities exceeding at present £300 per annum, and capable of considerable increase.
And also a POLICY of INSURANCE for THREE THOUSAND POUNDS, effected in April, 1888, in the London Life Assurance Association, upon the life of a gentleman aged 52 years.

in April, 1898, in the London Line assumed the Arman aged 52 years.

Mr. Edmund Strange Parsons, of Neath, and of the Ton Mawr Colliery, will show the property, and particulars and conditions of sale, with plans annexed, may be had of Mesars. Green and Allin, solicitors, 10, Angel-court, Bank, London; of David Randall, Esq., solicitor, Neath; of Mr. Edmund Strange Parsons, Neath; of the Auctioneer; and at the principal inns in the neighbourhood.

Messrs. Greek and Allin, solicitors, 10, Angel-court, Bank, London; of David Raxball, Eq., solicitor, Neath; of Mr. Edwund Strange Parsons, Neath; of the Auctioner; and at the principal inns in the neighbourhood.

THE WORKS OF THE ST. HELEN'S ALKALI, BLUE VITRIOL, AND METAL COMPANY (LIMITED), ST. HELEN'S, LANCASHIRE.

MESSRS, FULLER AND HORSEY are instructed by the directors to SELL BY AUCTION, on Wednesday, May 13, at Eleven, upon the premises, St. Helen's, in One Lot, unless an acceptable offer be previously made by private contract, the highly important FREEHOLD PROPERTY, known as the works of the ST. HELEN'S ALKALI, BLUE VITRIOL, AND METAL COMPANY (LIMITED), situate at ST. HELEN'S, LANCASHIRE, about fourteen miles from Liverpool, with canal and railway communication between the two places and all parts of the kingdom. The works were established about seventeen years since, for the purpose of working a patent for extracting metals from ores, and for the manufacture of the sulphate of cooper weekly; but, by a modification of sods and soda ash, and they are at present fitted with plant capable of producing 60 tons of sods ash and 10 to 12 tons of sulphate of copper weekly; but, by a modification of the plant, it could be made capable of producing, by the ordinary process of manufacture, 200 tons of sods ash and 20 tons of sulphate of copper weekly. The total quantify of land occupied by the works is 9 a. 1 r. 33 p. The St. Helen's Canal flows past the entire eastern boundary of the property, and there is a wharf wall, with facility for landing or loading goods, extending the whole length, and also a freehold wharf, about 170 feet by 60 feet. The St. Helen's Railway forms the southern boundary of the property, and there is a siding on to the works. Coals can be procured from neighbouring collieries, the uniform rate of carriage for which is sixpence per ton from the collieries to the works. A large reservoir for water has been constructed, which is supplied in a most ample manner from an adjacent colliery, at a

PLANT AND UTENSILS OF THE ST. HELEN'S PATENT ALKALI, BLUE VITRIOL, AND METAL COMPANY'S WORKS, ST. HELEN'S, LANCASHIRE. PLANT AND UTENSIES OF THE ST. HELEN'S PATENT ALKAII, BUE VITROID, AND METAL COMPAN'S WORKS, ST. HELEN'S, LANCASHREE.

M ESSRS. FULLER AND HORSEY are instructed by the directors to Selle BY AUCTION, on Wednesday, May 13, and following days, at Elevas each day, at the works, in Lots, unless an acceptable offer be made for the whole by private contract before April 30, the PLANT and UTENSILS of these EXTENSIVE WORKS, including a leaden sulphurie acid chamber, 72 ft. long; 4 lead concentrating pans, 31 lead coolers, 5 lead wells, 1 lead precipitator, 8 lead settling and dissolving tanks, 13 lead purpel, lead citerra, 10 pitch pine coolers, 90 large sulphate sah furnaces, containing about 200 tons of iron, and about 250 rods brickwork; three wrought-iron said cake pans, 4 sait cake roasters, black ash furnaces, 8 wrought-iron circulating years, 2 carbonating towers, 3 concentrating pans, 13 settling pans, 3 salting down pans, 5 finishing furnaces, 2 sh force power condensing ateam beam engine, 61 horse power high pressure steam engine, 9 smaller high pressure steam engines, of 6 horse and 10 horse powers, 6 wrought-iron steam boilers, 2 creating mills, with clevators and screen; pair of edge runners, 1 single runner, 1 mortar mill, shafting and gearing, set of 3 paint mills, large cast-tron water tanks, in plates; 2 large wrought-iron vaporating pans, 1 sparse Cornish steam boilers, 24 circular cast-iron pans, 13 rativay trucks, on springs; 6 ton weighbridge, 5 Pooley's weighing machines, 10 tons contractors' rails, turn tables, 60 tons wrought-iron pints and starts and scrap iron, lever punching press, fittings of smiths' and fitters' shops, stores of various descriptions, 5 tons of new rod and bar iron, cast and spring steel, copper, 10 tons spars and duplicate gearing for mills, 10 tons of wroughtiron utensits, 36 barrows, 15 small tron and wood trams, 3000 ft. ash, elm, poplar, and yellow pine boards, gas fittings, 4 tons pig and sheet lead and lead pipe, 3000 fre-bricks, fire engine and hose, crabs, screw jacks

CIMELTING WORKS FOR LEAD AND ZING ORE NOW IN FULL OPERATION, IN WALES.—TO BE DISPOSED OF, an OLD ESTABLISHED BUSINESS, with PREMISES and PLANT, adapted for SMELTING LEAD and ZINC ORES, and for the MANUFACTURE of SHEET LEAD and LEAD PIPE, to the extent of about 85 tons per week; also, for DESILEVERISING LEAD. The works are most desirably placed on a line of railway, and with water oution. About £15,000 will be required. One-half the purchase money ma

The works are the categories. One-man the property of the categories and thought, 13, Billiter-street. For further particulars, apply to Messrs. Fullen and Horset, 13, Billiter-street. London, E.C.

COAL AND IRONSTONE MINES TO BE LET, OAL AND IRVONSTONE MINES TO BE
ON LEASE.—The very EXTENSIVE BEDS of COAL and IRONST
the RUSHTON GRANGE ESTATE, in the parish of BURSLEM, in the co
STAFFORD, comprising upwards of 300 series of land, wholly entire, situate
centre of the Staffordshire potteries, and embracing all the various mines of it
portant coal field, the upperment seams of which crup out in the estate, and ar
unwatered by neighbouring workings.

The Trent and Mersey Canal passes right through the estate, and the North's
shire Rallway runs adjacent, by which ready means of transit are afforded to

The Trent and Mersey Cause passes of transactions of the kingdom.

The local manufactories and ironworks require very large supplies both ironstone, and altogether such an opening is presented to capitalists for ecolliery on a large scale as can rarely be met with.

For further particulars, refer to Jours Wand, Esq., solicitor, Bursien Sanuzz Barz, Springeleds, Newcastle, Staffordshire, with whom plans of the mines may be inspected. Sanal passes right through the estate, and the North S nt, by which ready means of transit are afforded to a

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UPSET PRICES GREATLY REDUCED.

MALLEABLE IRONWORKS AND FORGES, AND OTHER SUBJECTS, NEAR AIRDRIE.—There will be exposed to PUBLIC SALE, within the Faculty Hall Sale Room, Glasgow, upon Wednesday, the 15th day of April, 1863, at Two o'clock afternoon (unless previously disposed of by private bargain).—
1.—The GARTNESS MALLEABLE IRONWORKS and GARTNESS and MOFFAT FORGES, situated in the vicinity of the town of Airdrie, and about twelve miles distant from Glasgow, with about 20 acres of land, in a high state of cultivation.

The ironworks, when in operation, turned out from 160 to 180 tons of malleable iron weekly.

The ironworks, when in operation, turned out from 160 to 180 tons of malicable iron weekly.

The forges are situated in the immediate vicinity of the ironworks, are in good working condition, and capable of making shafts of 10 to 12 tons weight and under. The locality in which these works are situated is very favourable for obtaining supplies of iron and coal on the best terms, and a permanent ratiosay communication may be secured on moderate terms.

Upset price 'now reduced to £3000.

2.—STEADING of GROUND at Rawyards, near Airdrie, with the WORKMEN'S HOUSES erected thereon. Feu duty, £118s. 3d. per annum. Upset price now reduced to £300.

3.—STEADING of GROUND in Johnstone-street, Airdrie, with the WORKMEN'S HOUSES thereon. Feu duty, £29s. 10d. per annum.

Upset price now reduced to £305.

For further particulars, apply to Messrs. M'CLELLAND, Sox, and SMITH, accountants, 163, 8t. Vincent-street; Mr. WILLIAM FERRIS, manager, Calderbank Ironworks; Montingons and ANDERSON, writers, 40, 8t. Vincent-place; or to BANNATINES and KIREMODD, writers, 161, West George-street, in whose hands are the title deeds and articles of roup.—Glasgow, March, 1863.

TALUABLE MINES OF COAL AND IRONSTONE
TO BE LET.—The MINES in the DENBY OLD HALL ESTATE are about to
be brought into the market. They consist of the MAIN, SOFT, and ELL, or MINGE
COALS or such portions as remain unworked of this seam; the FURNACE COAL,
BLACK SHALE COAL, and the celebrated seam called the KILBOURNE
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CLAY. The cefate comprises 342 acres.
The only portion at present in work consists of 84 acres, the mines in which are on
lease to the Butterley Company down to the Minge coal, including the black and brown
less of ironstone.
The Ripley branch of the Midland Railway runs through the property in a most concenient position, and there is a communication by transway with the Derby Canal.
Application to be made to Robert S. Parker, Esq., at Denby Old Hall, near Derby;
Messrs. Woodhouse and Jeffocck, mineral agents, Derby.

VALUABLE ROYALTY OF SILKSTONE COAL FOR UPERIOR SEAM of HOUSEHOLD and COKING COAL, at a moderate depth from he surface, and adjoining the Midland Raliway, with facilities for transit aiready exting. The increasing demand for this excellent coal in the London and southern marets, and for the coke in local markets, and the small areavailable at a moderate depth, oint to this as an unusually favourable opportunity for the safe investment of capital-applications, from principals only, to be made to Mr. EDWD. HEDLEY, mining engiser, Gerard-street, Derby.

MINING CAPITALISTS.—TO LET, the VALUABLE
MINERALS of a LARGE ESTATE, pleasantly slinate on the YORKSHIRE
DAST, mear SCARBRO, abounding with IRONSTONE of the Cleveland band, famous
ULGRAVE CEMENT STONE, rich SEAMS of JET, ALUM ROCK, SHALE for
sking fire-bricks, &c., LIAS LIMESTONE, and capital FREESTONE, for building
proces. A commodious manager's residence, offices, &c.; paddock, garden, labourers'
sittages, extensive outbuildings, &c. Ali or any portion to be had at a moderate royalty
i rent.—Apply to Mr. Hammond, Peckham-rye, Surrey.

NOTE.—Gold has been found in the shale.

THE GREAT TALYMEWYN SLATE AND SLAB
QUARRY.—The Great Talmewyn Slate and Slab Quarry is situated in the parish
f Mallwyd, in the county of Merioneth, and is a continuation of the extensive quarry

Animyo, in the county of the best promising:

A loose end has been cut across the vein, and the nature of the rock is most promising:

A loose end has been cut across the vein, and the nature of the rock is most promising:

Of, lower down again a tunnel has been driven, intersecting the vein, and I find the ck bere to be of the same pure quality. The tunnel has been driven through the vein at I find there is any quantity of slate and slab. There is also every convenience to contain the county of the transfer of the premises to work the engines.

e engines.

I must not omit to mention that this quarry is within six miles of the station of the swown and Machynlieth Railway.

Bhould any respectable company wish to treat for the Talymewyn Slate and Slab Barry, they will please to send a pre-paid letter to Mr. Joseph Parky, Corris, negr

INAS FIRE-BRICKS,-Messrs. FREDERICKS AND JENNER beg to offer these well-known bricks, either at their Dinas Bridge or Edwelly Works, and can safely recommend them as EQUAL, if not SUPERIOR, to ANY FIRE-BRICKS MANUFACTURED, having the bighest testimonials from the largest copper smelters and consumers in the world.—Full particulars, with testimonials, prices, &c., can be had on application to their agent, Mr. Gzonge Youxo, Britos Terry, South Wales; the Dinas Bridge Brick Works, Gyn Neath; Kidwelly Brick Works, Kidwelly; or Messrs. Eastwood, Belvidere-road, London.

ALE OF BASTIER'S CHAIN PUMP PATENT.—
Mr. J. U. BASTIER is DESIROUS of FINDING a PARTNER for CONINDING the DEVELOPMENT of his ENGLISH PATENT for his CHAIN PUMP,
he is WILLING to SELL the ENTIRE or PART of HIS INTEREST therein,
is proposes to grant four exclusive licenses for the full term of the patent, for England,
cottand, Ireland, and Wales respectively:—
For the license for England, he demands the sum of £3000 for the nurceerved transfer,
£1000 if 25 per cent, of the nett profits be secured to him.
For the license for Scotland, he demands £1500 for unreserved sale, or £750 with 25
cent, of profits.

For the license for Substants, its demands £1400 for unreserved sale, or £700 with 25 from the license for Ireland, he demands £1200 for unreserved sale, or £600 with and for the license for Wales, he demands £1200 for unreserved sale, or £600 with aper cent. of profits.

per cent. of profits. Address, J. U. Bastier, C.E., 47, Warren-street, Fitzroy-square, London.

MANCHESTER.

M. W. HANNAM: OFFICES, ROYAL INSURANCE BUILDINGS, KING STREET, MANCHESTER.

MINING, SLATE QUARRYING, INSURANCE, and GENERAL STOCK and SHAREDEALER.

MINING, SLATE QUARRYING, INSURANCE, and GENERAL STOCK and SHAREDEALER.

Bharedealing in this office is limited to special mines, and companies whose pretensions we been personally investigated, and to the dividend-paying mines ordinarily desit she on the London market, and for the latter purpose arrangements have been made for the earliest information from the great mining districts. There can be little doubt that a dealing with well-established, dividend-paying mines, investors, without any greater six than accrues from purchase of railway or house property, receive a much larger relax profit than from any other species of investment, free from all trouble, and paid in a most convenient form for those who have limited incomes—viz., every two or three afts; while those who enter into now undertakings, such as progressive mines, have a knowledge that nothing which is not bona fide, and has stood the test of thorough unination, is submitted to them. It cannot, of course, be expected that where the fits are so enormous that these latter investments should be entirely free from risk. If that can be done is to ascertain the respectability of the management, and the value the prospects. This done, no speculations are likely to be so valuable as those in lining operations; it being no uncommon occurrence for shares to rise in value 200 and per cent. In a few months.

R. GEORGE HENWOOD, MINING ENGINEER,
LOCHHEAD HOUSE, LOCHWINNOCH, SCOTLAND, OFFERS his SERESS and ADVICE on mines situated in any part of England, Scotland, Wales, Ire, Isle of Man, &c. Mr. Henwood's extensive experience in his peculiar department
mining science is well known, and will be exerted to the utmost for the benefit of

bilents.

1. STICKLAND, M.E., having had upwards of 40 years biging experience in Cornwall, several years of which he has had the entire age but of mines therein, enables him to GIVE ADVICE on MINES and their NAGEMENT.

3 STEELAND begs to OFFER HIS SERVICES in BUYING and SELLING SHARES dvantageous terms for capitalists, who will do well to consult him, either by letter personally, previous to their investing in mines now at work, or in schemes now a brought before the public. Good references given if required. Mines inspected satisfully reported on.

Is monthly "Circular" for March continues the difference between the Limited Linity and the Cost-book Systems. A selected list of mines forwarded on receipt of six large stamps.

Finsbury-street, Finsbury-square, London.

BRITISH AND FOREIGN STOCK, SHARE,
AND MINING OFFICES.
THANSACT BUSINESS in EVERY DESCRIPTION of SHARES in BANKS, RAILWAYS, CANALS, INSURANCE, MINES, and GOVERNMENT STOCK. Dividends
wired, calls paid, and every class of Stock Exchange basiness effected.
here being a considerable amount of money locked up in shares not prominently bethe public, and consequently difficult of sale, Mesers. T. FULLER and Co. invite
to holders of such stock to communicate with them, having channels for the disposal
every description of shares.

s holders of such stock to communicate with them, naving conserving description of shares.

FOR SPECIAL SALE: —Shares in an established company (limited), the property should; and in several mines which pay regular dividends of 12½ to 20 per cent.

Resers. FULLER and Co. having had upwards of 20 years' experience in the mining sket, prompt them to point out shares in certain progressive mines as prizes for the ar 1863.

Commission, 1½ per cent.

Bankers: Metropolitan and Frovincial.

O CAPITALISTS.—MESSRS. LEICESTER AND CO., INSPECTORS and VALUERS of MINES, &c., MELBOURRE, VICTORIA, FER THEIR SERVICES to SELECT and INVEST CAPITAL in MINING PROSTIES, for which they charge 2½ per cent.; and they also COLLECT and TRANSTHES, for which they charge 2½ per cent. on their amount. Messrs. Leicesyrer and carmently call the attention of capitalists to the many opportunities they possess of sating, to pay from £50 to £150 per cent. per annum. Sums under £50 will be ged extra. All remittances must be made through our agent, Mr. RICHARD Minrow, Mining Journal office, 26, Fleet-street, London; or direct through our bankers, Union Bank of Australia.

OINT-STOCK COMPANIES.—ADVICE and (if required)
PROFESSIONAL ASSISTANCE GIVEN to any bons fide undertaking, by
LEE STEVENS, 36, CANNON STEET, E.C.

REDFORD IRONWORKS, TAVISTOCK.

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of the stuff.

of the stuff.

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wrought-iron steeled edge bars on the top, the plates and bars being from 1½ in. to 2 in.
part, and can be regulated to any size, as may be required, through which plates the
siuff passes as it is broken with the hammers unto perforated plates, which form it
nto different sizes, from 1½ in. cube downwards, which plates can also be regulated as
may be required. The machine can be erected in connection with other machiner, for
bout £15 per hammer, as driving power. Two, three, four, or any number of hammers
may be had as required. Four of from 4 to 5 cwts, each will break about 1000 tons
we month.

per month.

This invention well deserves public notice, as it will decidedly effect an econom
70 per cent, over manual labour, together with a great advantage in the dispatch of w
performing it far better than any other mode yet introduced, and several practical
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The work altogether forms an acceptable addition to he existing stock of mining literature, and may be commended to the attention of those who wish to extend their sequal transports. The part of the selection of the selection of these who wish to extend their sequal transports of the selection of the selection of these investments, and the facts and opinions presented appear to be stated in a fair and candid manner.—Hereld.

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Shares, Mines	DIVIDENI Paid.	ast Pr. Business, Divide	nds Per Share. Last Paid.	4943 Alfred Con. (cop.), Ph 6000 Bagtor [L. £2] 400 Baidwin, I. of Man [L	illack. 4 4 11. —
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6144 East Caradon (cop 300 East Darren (load	Copper), Caistock . 2 1 0 Waiss	41 41 421/4 6	15 0 0 17 6—April, 1863 10 0 1 0 0—Mar. 1863 0 0 5 0 0—Feb. 1863	2200 Burren (lead, calamine 915 Calvadnack, Wendron 1000 Camborne Consola (co	Montgo. 7 10 %. —
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640 Mount Pleasant (lead), Mold 4 0 0) [L. £4] [S.E.] 2 10 0	= :: 2 :: 18 = :: 0	18 1 0 7 6—Aug. 1862 2 0 0 2 0—Mar. 1863 6 0 0 1 6—April, 1863		
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200 Parys Mines (cop 400 Phonix (copper s	per), Anglesey [L.]. 50 0 0	= :: :: 67	10 010 0 0—Jan. 1868		
1772 Polherro (tin), St. 1123 Providence (tin),	nd tin)	43 .: 42 43 .: 67	9 6 0 10 0—April, 1863 5 0 1 0 0—Feb. 1863 8 6 0 2 6—Sept. 1862	6000 Charlotte Untd., Perra 4000 Clara Unit., Ponterwy 787 Clijah & Wentworth (3170 Coed Mawr Pool (leas	tin, cp.) 30 15 0 —
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			3 6 0 5 0—Nov. 1869 3 6 0 5 0—April, 1863 0 0 2 0 0—Mar. 1862 12 6 1 0 0—Oct. 1862	2000 Crowan Cons. (cop.) [2000 Crowlwm (lead), Llan 6000 Cuddra (cop., tin), St.	hidloes. 1 10 0 —
4200 Vigra and Clogau 6000 West Basset (cop	((copper) [L. £5] 2 15 0 pper), Illogan [S.E.] 1 10 0 pp.), Liskeard [S.E.] * 5 0 0 pper), Gwennap 38 10 0	13 : 19 13 :: 23		1800 Cwmbrane, Carmar. [30000 Dale, N. Staf. [L.] [2100	L. £3] 2 0 0 — 0 £1 pd.,9000 7s. 6d.pd.]
1024 West Caradon (co 256 West Damsel (co) 6400 West Fowey Con	pp.), Liskeard [8,E.]* 5 0 0 pper), Gwennap 38 10 0 sols (tin and copper). 7 10 0	34 30 34 101	1 3 0 10 0—Oct. 1862 0 0 1 0 0—Jan. 1863 19 0 0 3 0—May, 1862	2000 Deborah Untd. (lead), 2000 Deep Level, Minera [12000 Devon Union (copper)	[L. £5] 3 5 0
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1000 Wheal Basset (co 1000 Wheal Basset and 1900 Wh. Clifford Ams	oils (tin and copper), 7 10 0, 1	70 26 27 2 21 20 22 28	0 0 1 0 0-April, 1863	6009 Cuddra (cop., thn), 8t. 1800 Cwmbrane, Carmar. [30000 Dale, N. Staf. [L.] [2] 10 5500 Deborah Untd. (lead), 2000 Deep Level, Minera [12000 Devon Union (copper) 4566 Devon Wheal Buller 20000 Dolfrw-y-nog (gold) 1000 Durlo (tin), Lelant 4000 Durlo (tin), Lelant 4000 Durlo (tin), Lelant 600 Eaglebrook (lead) [L. 600 Eaglebrook (lead) [L.	£20] 16 0 0 —
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1040 Wh.Trelawny(sil	id.),Liskeard [S.E.] 5 17 0	16%16% 17% 46	12 6 0 10 0—Mar. 1863	6000 East Crinnis and Sout	wennap 1 11 0
	ES WITH DIVIDI			2049 E Palmonth (Conso	18 (cop.) 1 9 0
	or-lead), Merioneth 1 10 0 no (lead), Cardigansh. 33 0 0	0	10 0 0 10 0-Mar. 1859	4000 E. Gunnis Lake &S. Bo 6145 East Jane (silld.), C	ardinham 1 13 0 2%2% 2% odf.(cp.) 7 1 0
256 Condurrow(cop.,	tin), Camborne 35 0 0	98 9814 97	0 0 4 0 0—April, 1861 0 0 2 0 0—June, 1857 7 0 0 7 0—May, 1862	1024 E. Margaret (tin), Un 8000 E. Polberro, St. Agne 4096 E. Providence (tin), U	s [L.] 0 10 0 —
4076 Devon and Corny 672 Ding Dong (tin),	Gulval 40 18 6	= :: :: 16	10 0 0 2 6—Feb. 1859 7 6 1 10 0—Mar. 1857 9 3 0 2 6—June, 1860 18 6 0 5 0—Dec. 1861	KOOO P Passamana (an Alm	
6000 Great South Tolg 5000 Kelly Bray (lead	Soppery 10 Soppery Callington Soppery Callington Soppery Sop	514 514 514 7 - 20s. 21s 0	6 0 0 2 0-Feb. 1860	1190 E Wheel Ager (con)	
20000 Mining Co. of Ire 20000 New Birch Tor a	oland (cop., lead, coal) 7 0 0 nd Vitifar Cons. (tin). 1 6 6.	19% 14	0 0 5 0 0-May, 1860 7 11. 0 7 0-Dec. 1861 3 6 0 1 0-Sept. 1861	1095 East Wheal Fortune	(tin) 1 0 0 —
6000 North Downs (co	nd Vitifer Cons. (tin). 1 6 6. ining Co., Co. Down. 50 0 0. opper) Redruth 2 3 4.	3 .: 2% 3 .: 66	3 6 0 1 0—Sept. 1861 0 0 1 0 0—Sept. 1858 10 0 0 2 6—May, 1862	2048 E. Wh.Lovell (tin), 4000 E. Wh. Russell, Tavis 10000 Ely Merthyr Col. (L.	
12000 Sortridge Con. (co	op.), Whitchurch [8.E.] 0 17 0. op.), Whatchurch [8.E.] 0 17 0. or), Marazion 1 0 0. ld.), Berralston [8.E.] 4 10 0.	= :: :: 0	2 0 0 2 0—Oct. 1862 10 0 0 2 6—July, 1857 13 6 0 3 0—Mar. 1860	10000 Ely Merthyr Col. [L. 5000 Fursdon (copper) [L. 6000 Furze Hill Wood Cons	£1 10s 1 7 6 — ,Buckl. 0 16 6 —
			6 0 0 2 6—Jan. 1861 0 0 0 10 0—Sept. 1860	1024 Garlidna Untd. (tin),	Wendron 13 6 4 — 314 4
60 West Burton Gil 256 Wheal Buller (co	s (tin), Wendron 12 13 10 11 (lead), Yorkshire 50 0 0 0. op.), Redruth [8.E.] 5 0 0	60 60 621/4 929	15 0 1 0 0—Jan. 1861 10 0 3 0 0—June, 1861 0 0 2 0 0—Mar. 1861	1094 Callefornillor (14) Th	vistock 1 17 des
128 Wheal Friendshi 1024 Wheal Hearie (t 512 Wheal Jane (silv	in), St. Just 9 18 8.	80	10 0 5 0 0—Feb. 1861 5 0 0 5 0—May, 1862 10 0 1 0 0—Mar. 1862	6000 Gen. Min. Co. for Ire 30000 Giasgow Caradon Con 4892 Goginan (silvld.) [1	ns. [L.]. 1 0 0 — 900 £12¼,2992 £1] —
1024 Wheal Kitty (tin 4295 Wheal Kitty (tin	(opper), Devon 50 0 0.	5 4% 4 0	10 0 0 10 0-April, 1862 18 6 0 2 0-July, 1866 17 6 2 0 0-Oct. 1861	6400 Conamena (copper),	ot (the) 9 0 0
9000 Wicklow (coppe	FOREIGN		17 6 9 0 0—Oct. 186)	486 Gramb. & St. Aub. (c) 5000 Great Brigan (copper 4096 Great Caradon (cop.)	b. Neot. 0 12 6. — 14 16 c. Neot. 0 12 6. — 14 16 c.) [8.E.] 55 0 0. 16 14 16 c.)
2464 Burra Burra (c	op.), South Australia. 5 0 0.	300	0 9 5 0 0-Oct. 186: 2 0 14 6-Oct. 186:	6000 Great Laxey (lead) [L. £4] (copper) 2 0 0
12000 Cobre Copper C 10000 Copiapo Mining	can (silver) [L.] 5 0 0. co. (cop.), Cuba [S.E.] 40 0 0. r Company, Chili [S.E.] 16 0 0.	21 .: 19 21 .: 98	12 0 1 0 0-Jan. 186: 18 0 0 10 0-Nov. 186:	5000 Gt. Retallack (sllld	blende) 1 19 0 Iss.
70000 East Indian Co	atralian [S.E.] 5 0 0.	: - :: :: 1	7 6 0 2 6—Feb. 186: 5 10. 0 3 4—Mar. 186:	8730 Great Wheal Badder	n (tin) 6 6 0 — in), Ken. 15 0 0 —
28000 Gen. Mining As 68000 Kapunda Minin	Spain [L.] [S.E.] 2 0 0. soc., Nova Scotia[S.E.]20 0 0. ng Co., Australia [S.E.] 1 0 0. ozo Ancho, Spain [S.E.] 3 0 0.	5¼ 5 5¼ 0 22 20 29 19	5 0 1 0 0-June, 1863	5000 Grosvenor(id.)[25003	Elpd.,2500 7s.pd.] t. Erth 1 18 11
10000 Lusitanian (of	Portugal) [S.E.] 2 0 0.	0	1 2 0 5 0-Mar. 186 19 9 0 1 0-Feb. 186 9 6 0 1 6-July, 185	6400 Haywood (ld.) Durhe	
100000 Port Phillip (go 11000 St. John del Re	old), Clunes [S.E.] 1 0 0. by [L.], Brazii [S.E.] . 15 0 0. sti.), Mexico [S.E.] Av. 28 5 0. fining Company [L.] 1 0 0.	. 11/4 11/4 13/6 0 . 57 55 57 54 61/4 61/4 63/4 1	8 6 0 2 6—Jan. 186 15 0 4 0 0—Dec. 186	6000 Hingston Down (cop.)), [8.E.] 5 6 0 — , pd., 5000 10s.pd.]. —
20000 West Canada M	fining Company [L.] 1 00	6% 6% 6	2 0 0 2 0-Nov. 186		h. d 0 5 0 1% . 1½ 1%
And the second second	MINES WITH 1 mangenUni.(cop.)[L.£5] 4 10 0	and the second s	ABEYANCE. 5 0 0 15 0-Nov. 185	963 Lelant Cons. (tin). Ur	S.E.] 2 5 6 1 74 1
10000 Gt. Barrier Land 10000 Pontgibaud (si	d, Min., &c., N.Ze. [L.£5] 4 10 0 llead), France [S.E.]20 0 0	: 7 :: : : :	15 per cent. — May, 185 0 0 1 0 0—June, 185	240 Llangan (ld.), Glamo	Int 15 0 0
	NON-DIVIDEND	FOREIGN MINI	es.		
20000 Australian (cor	ines. pper), South Australia [S.E.] .		t Pr. Bus. done. Last Call 1%1% 1% Sept. 185	8 9475 Michell (lend) Wilne	0 12 0 ::
78000 Beariz (tin) (L 78000 Bon Accord, So 18000 Cape Copper M	eti] suth Australia (copper) [L. £1] taing Company (L. £10], Mexico (L. £2] (S. Ē.) (copper) [7000 £2 paid] sols (copper), Jamaica [S. Ē.] ing [L.], Chili th Del Roy (gold), Brazil [L. £1] (copper), New Zealand [L.] [S. Brazil [L. £3] y Native Siiver Mining Co. of Nompany [L.] sardowis. Jamaica	[S.E.] 1 0 0 2 10 0	% 34 % Jan. 186	1024 Mill Pool (copper) 5000 Molland (cop.), S. M	onlton 2 9 6
25000 Capula (silver) 17000 Central Italian 40000 Clarendon Com	(copper) [7000 £2 paid]	0 10 0	%Jan. 186	1024 Nangiles (tin, copper 50 Nanteos (ailld.), Ll 5000 Nanteos and Penrhiw	
10000 Coptapo Smelti 100000 Don Pedro Nort	ing [L.], Chili th Del Rey (gold), Brazil [L. £1	[S.E.] 0 10 0	1 % 1 Aug. 186	5000 Nanteos and Fenrity 512 Nant Minera (L. £2) 2400 Nant-y-Iago (ld.), M 250 Nanty Mines (ld.), M 6400 Nether Heath (lead), 6400 N. Crow Hill (ld.), 81	ferioneth 3 12 6 —
25000 Dun Mountain 25000 East del Rey, l 20000 East Kongsber	(copper), New Zealand [L.] [S. Brazil [L. £3]	E.] 1 00 1 00	11/41% 11/4Sept. 186	6400 Nether Heath (lead), 6400 N. Crow Hill (ld.), 8t 6000 New E. Birch Tor an	Dufton 0 15 6 — Stephen 2 8 6 — 1% 1%
30000 Elbe Collery C	Company [L.]	0 18 0	- se south, You	a I 400 New Headle (rin-col	Taylatock 0 6 0
40000 Fortune (coppe 80000 Great Northern	er), West Australia [L.]	£3) [8.E.] 1 10 0	Fully paid Fully paid June, 186	1. I GUUU New Treisigh Cons.	Redruth 1 18 0
4000 Hindostan (co) 4000 Hope Silver-La 50000 Imperial Th	r), West Australia [L.] a (copper), South Australia [L., pper), Bengal [L., £5] and and Copper Mining Co. [L., salian (lead, &c.), Thessaly [L.,	Jamaica 25 0 0	June, 186Feb. 186Fully paidJune, 186	1. 400 New Wheal Prospidi	.), Camb. 21 10 0 —
80000 Lagunaro (sul	phur, copper). Portugal [L.]	1 00	Fully paid	1. 6000 Nidderdale(ld.), York 1. 1024 North Buller (cop.),	Redruth. 22 17 6 41/4 51/4
2000 New Burra Re	s (gold), Brazil [L.] [S.E.]	3 00	2% 2% 2% Fully put Ang. 186	4000 North Cornwall (End., 20000 North Devon (all, ald	dellion) — —
10000 New Grand Di 60000 North Rhine ((gold), South America [S.E.] achy of Baden (silvez-lead), nea Copper of South Australia [L. £i land and gold) [L. £3]	r Freiburg 1 0 0 1] [8.E.] 0 17 6	- Nov. 181		
15000 Pachuca Silve 17000 Quebrada (cop	oper), Venezuels [L. £10]	21] 0 15 0	Nov. 186 April, 186 134 Dec. 186	1366 N. Grambler (cop.), 32 6000 N. Gt. Work, Breas	pper)
20000 Scottish Aust 15000 South Europe	ralian Mining Company [L. £1] Mining Company [L. £1]	0 10 0	% % %Mar. 186	A B Street miles militar	gr.[L.£2] 1 50 — [S.E.] appended have been admitted
\$6000 St. John's Un 12000 Teplitz Collie 10000 Vancouver (c	Dopper of South Australia [L. £] and and gold) [L. £2] r Mining Company, Mexico [L. pr. Mining Company, Mexico [L. pr. Mining Company, Spain [L. £1] ralian Mining Company [L. £1] Mining Company, Spain [L. £5 tited (copper, isad), Newfoundia pry Co. [L. £3] cal) [L. £10] uel, Italy [L.] ca Maiachite (copper) [L.] South Australia [L.] ca (copper)	64 [L.] 1 0 0 2 0 0	Fully pai	ă.	
1600 Victor Eman	uel, Italy [L.]	1 00	Fully pai	tion which may, fro	make the Share List correct, we can m time to time, come under their n
19000 Wheal Ellen, 34525 Wheal Jamai 80000 Worthing (co	South Australia [L.] ca (copper) pper), South Australia [L.] [S. na (copper), South Australia [L.	E.] 1 00	Fully pai	d.	rts from mines—in fact, mining intel
45000 Yudanemuta	na (copper), South Australia [L.] [S.E.] 3 00	4% 3% 4% Fully pai	i,	AND MIDPLETON, and published by I munications are re

PROGRESSIVE MINES.	Shares. Mines. Paid. Last Pr. Bus. done. Last Q. 16000 N. Hallenbeagle (tin, ep.) [L.] —
Mines. Paid. Last Pr. Bus. done. Last Call. effred (lead), Cardigan 0 10 0	2000 North Jane (tin, silver-lead). 5 0 0 Jan. 1
as Min. and Smelt. [L. £1] 0 15 0 Mar. 1863	6000 North Laxey(lead) Isle of Man Fully m
tor [L. £2] 1 10 0Jan. 1863	15000 North Minera (lead) [L.] 1 0 0 6s Fully m
dwin, I. of Man [L. £5] 2 15 0 5½ Mar. 1863 leswidden (tin), St. Just 14 8 7 Mar. 1862	4000 North Fhonix (copper) 3 18 6 — 4½ 5 Sept. 11 6400 No. Pool (tin & cop.). Illogan —
anfylds (conner), Devon., 1 0 0., Aug. 1860	6000 North Porthilly (ally, lead)
shaven (copper), Ireland., 1 0 0	5000 N.Trelether(sll.,cp.), Padstow 1 0 0 Feb. 1
ins (lead) [L. £30] 30 0 0 — Fully paidDec. 1860	
orne & Bollowall, St. Just 6 5 0 Dec. 1860	5610 North Wheal Crofty [S.E.] 2 5 0 54 5 54 April, 1
worthen (tin) 0 5 0	ol44 N. Wh. Robert, Samp. Spiney 2 17 11 April, ii
ish (tin & cop.), [L. £1 10s.] 0 12 0 No call.	4108 North Wheal Trelawny (lead) 3 11 6 —
n-Haulog(ld.),Denbighsh. 20 0 0 —	4000 N. Wray (ld.), St. Ive [L.£2], 1 0 0 Jan. 1
nambor (id.), Cardi.[L.£5] 2 3 0 Nov. 1862	6000 Old Wh. Neptano (cop.), [L.] 1 17 6 Nov. 1
n Gwiog (lead), Flint 6 0 0 32 30 32 April, 1862	1000 Pant-y-pydew (lead) 4 2 6 Oct. 1
ler and Basset Unit. (cop.) 4 1 6 Feb. 1563	8465 Pedn-an-drea United (tin) 3 13 6 — 3000 Pendeen Consols, St. Just 3 17 0 8 7½ 7¾ April, ii
ra Burra (cop.), Kenwyn. 2 10 0 April, 1862	1000 Pengenna (Id., all.), St. Kew. 5 0 0
vadnack, Wendron (tin) 23 4 6 91/2 9 91/2 Feb. 1863	6000 Penralt (sil. ld.), Merion.[L.] 2 4 0
nborne Consols (copper) 17 15 0— Feb. 1863 nborne Vean & Wh. Francis 8 14 4— Oct. 1862	200 Pentre Lygan (lead) [L. £30] 20 0 0
nbrianConsolid.(gd.)[L.£2] 1 0 0 —	6000 Polhigey Moor(tin), Wendren 1 10 0 —
adon Hill (copper) 2 1 6 July, 1862	12800 Prince of Wales (tin), Calstock 0 5 0 10s 9s. 10s Mar. 1
adon Vale (copper) 5 0 0	4000 Personality (tip on) St Hilary 6 11 6
digan Consols (lead & cop.) — — July, 1862 marthen United (lead) 5 0 0 — Fully paid.	11789 Redmoor(cop.,tin), Callington 0 11 0 — July, it 5000 Rhafna (lead) [L. £1] 0 6 8 — Nov. 1
n Camborne (copper) 0 13 6 18s 18s. 20s April, 1863	2500 Rhoswydol and Bacheiddon 19 5 0 Oct. 1
n Vivian (tin, cop., lead). 2 16 Nov. 1861	10000 River lumar Copper [12:1:*** * 0 0:* **
nvorth (tin), St. Just 4 0 0 Sept. 1862	4096 Rosewarne United (cp., tin) 3 8 0 Nov. 1
tleward, Ireland [L.] 1 0 0 Fully paid.	8000 Royalton (tin), [L. £1] 0 10 0 Aug. 1
n Cilcen (lead), Flintshire. 2 1 0 14Jan. 1863 atral Minera (lead) [L.£5] 1 19 0 —Oct. 1862	2000 Scorrier Con.(tin,cp.),St.Agnes 4 13 6 Feb. 1
ra Unit., Porter wyd [L. £3] 1 12 0 July, 1862	10000 Steford Con. (cop.,tin)[L.£1] 0 16 6 Sept. 16
ah & Wentworth (tin, cp.) 30 15 0 Dec. 1862	100 Silver Rake (lead) [L. £20] 7 2 6 July, 1
d Mawr Pool (lead) [L.] . 4 16 6 —	6000 Smith's Wood (tip.cp.) [L.£2] 1 10 0
morree (cop., sulph.) [L.] 1 0 0 Fully paid.	519 South Resect (con) Gwennan 15 10 8. 8 . 7 8 . Feb. II
ne (copper), Camborne 16 10 0 23Mar. 1863	6400 So. Buller & W. Penstruthal. 0 12 0 May, 1
lake (cop.), Tavistock — 38 14 No call.	6000 So. Carn Brea (cop.) [S.E.] 6 15 0 4 4 414 Feb. 1
okhaven (cop.) [L. £2½]. 1 10 0	6138 9 Condustrow (tin on) Camb. 9 8 0
wlwm (lead), Llanidloes. 1 10 0 No call.	128 S. Crinnis (cop., St. Austell., 19 0 0 —
mbrane Carmer II. £31 2 00 Feb. 1862	6000 S. Doleoath & Carnarthen Con. 2 to V
e,N.Staf.[L.][21000 £1 pd.,9000 78. 0d.pd.]	6000 South Gernick (tin), Crowan. 0 2 6 Oct. 1
pp Level, Minera [L. £6] 3 5 0	2000 South Gorland (copper) 3 15 0
ron Wheal Buller (copper) 4 10 0 Aug. 1862	1024 South Herodsfoot
rlo (tin), Lelant 8 2 0Oct. 1862	5425 So. Phonix (cop.) Linkin 6 11 7 Nov. 1
ta (tin) [L. £1]	1024 South Tresavean, Gwennap. 4 11 3Jan. 11
t Abraham (copper) 2 10 0 Mar. 1863	937 So. Wh. Crofty (cop.), Illogan 12 8 10, 31 29 31 Feb. 10 1024 S. Wh. Ellen (cp.), St. Agnes 9 18 2 Aug. 10
Beam (tin), St. Aus. [L. £2] 1 7 0 Mar. 1863	1000 South Wh. Kitty (tin), Leiant 1 10 U.
the Brookwood (copper) 1 70	1024 c. Wh. Leisure (tin & cop.). 0 2 0 May, II
t Carn Brea (cop.) Redruth 3 15 0 9½ 8½ 9Feb. 1863	794 Garage Cone (rip) St. Just. 6 12 0
llogau(gold), Merio.[L.£1] 0 5 0 May, 1862	970 St. Aubyn and Grylls (cp.,tin) 7 14 0 Aug. II
t Damsel (con.), Gwennan 1 11 0 Mar. 1862	
Falmouth (sld.), Kenwyn 4 0 6 —	4000 St. Day United (tin), Redruin 3 15 5.
Grenville (cop.), Camborne 1 12 0 258238 258 Feb. 1863	6000 St. Just Untd. (tin) [L. 2½]. 2 0 0 Dec. H 6000 St. Just Consols (tin) [L. £1] 0 10 0 34 36 34 Feb. H
Junnis Lake &S. Bedf. (cp.) 7 1 0 Mar. 1863	640 Stamp Office (lead), Mold 1 0 0
Margaret (tin), Uny Lelant 18 5 0	8000 Tess Side (1d.), Cumb. L. £11 0 18 0
Providence (tin), Uny Lel. 2 12 4	2000 Tolcarne (Cop.) (tin) St. Enoder 3 5 0 Sept. II
t Seton (cop.), Camborne 0 8 0 8s. 10s April, 1863	
Treskerby (cop.), Redruth, 6 17 6	8270 Tressilvn and Scaddick Cons. 1 11 6 Jan. 1
Wheal Agar (cop.), St. Cleer 11 2 0	5600 Trevenen and Tremenheers . 5 6 0 Jan. 1
Wheal Grylls (tin, cop.) 0 10 0 —	2048 Treworlis (tin), Wendron 3 18 10
Wh. Russell, Tavis, [S.E.] 8 16 4% 44 4% Feb. 1863	
r Merthyr Col. [L. £2 10s.] 1 5 0	800 Tynewydd(silid.),Cardigan. 0 5 0 Dec. 1
rze Hill Wood Cons., Buckl. 0 16 6	
riidna Untd. (tin), Wendron 13 6 4 3 4 Mar. 1863	4000 Wentner [L. £216] (lead) 2 2 0 Feb. 1
rreg (lead), Flint 5 5 0 3411s. 13sOct. 1862 wton (copper), Tavistock 1 17 0 3411s. 13sOct.	20000 West Beam [L. £1] 0 15 0 Dec. I
lliffowller (ld.), Holywell. 0 2 6June, 1861	
nagow Caradon Cons. (L.). 1 0 0	16 West Denbigh (id.), Denbigh. 35 0 0 — Oct. II
namena (copper), St. Cleer. 3 13 U.	
onbarrow & Molinnis (tin). 2 0 0	6000 W. Grylls (tin), Perrandimos o social series and series and series at Fortesene Lamerton - as - a 214 214 as
amb. & St. Aub.(cp.) [S.E.] 55 0 0 16 14 16 Mar. 1863	19000 West Par Con. (cp.) St. Blazey 1 11 0
eat Caradon (cop.), St. Ive. 2 2 0 2 2 21/4 Mar. 1863	1600 W. Ross Down (cop.), Carmion
eat Laxey (lead) [L. 24] eat North Downs (copper) 2 0 0 Aug. 1862	1056 WestStray Park (cop.), Camb. 1 15 0
Retallack (silid., blende) 1 19 6 12sMar. 1868	5000 West Tolcarne (cop.), Crowan 1 15 0 Feb. H
reat Tregune Consols (cop.). 0 5 0 Dec. 1862	KASI West Trevelyan (till, copper)
eat Wheal Baddern (tin) 6 6 0 —	4000 West Wendron (tin), Wendron 1 0 6Jan. II
wh. Busy (cop., tin), Ken. 15 0 0 —	
wydyr Park Con., Llanrwst 0 19 0 Feb. 1868	1024 West Wheal Lovell, Wendron. 2 13 5
rwood (id.).Durham L. Ell U O O	1024 Wh.Anna (ld., blende), Perranz. 0 13 6 Oct. 1
newton Down (con.) [8.E.] 5 6 0 Feb. 1868	5990 Wh. Arthur (cop.), Cuistoca. 1 50
ogan (tin and copper) 0 5 0 1561 1/2 1/8 July; 1862	6000 Wheat Caradon (copper)
perial Silver-Lead, Dolgelly 65 0 0Jan. 1862	6000 WhealCrebor(cop.), Lavistock 1 3 6., 3 4., Mar. I
dy Bertha (cop.) [S.E.] 2 5 6 1 34 1Jan. 1863	3 4096 Wh. Edward (cop.), Calstock 7 17 0 — 2½ 2½ Mar. 1
eds & St. Aubyn (tin, cop.) 17 6 4	2000 Wheal Falmouth & Sperries. 3 10 0
angan (ld.), Glamor, [L. £25] 5 0 0	8 s120 Wheal Harriett, Camborne 2 00 078 378 May
wer Park Denbighshire [L.] 3 3 0 Nov. 1863	g 6000 Wh. Harris (ld., cop.), Lifton 0 10 6 Feb. 1
orllyn (lead), Flint 3 18 0 6s 5s. 6s April, 1861	2048 Wheal Hope (silid.), Perran 0 18 0
erryfield (lead) [L.] 0 12 0 Angl. 1860	968. Wheal Margery (tin, copper) 17 18 0
ill Pool (copper) 15 15 0	6000 Wh. Norris (tin, cp.), St. Cleer 2 10 23 24
angles (tin, copper), Kea 13 0 0 — 9½ 10½ Mar. 1862 anteos (silid.), Llanbardan —	6000 Wh. Pollard (cop.), St. Neot's 2 13 0 13s 12s. 13sJan.
anteos and Penrhiw [L. £4] 3 12 0	
	240 Wh. Reeth (tin), Univel 0 9 0
anty Mines (id.) Montgom, 20 0 0 Fully paid	1024 Wh. Sicily(siliu.), Broadent 4 17 0
Crow Hill (ld.), St. Stephen 2 8 6 1% 11/2 Feb. 186	3 2048 Wh.Sithney & Carnmeal Uni. 8 10 0 3 Feb. b
ew E. Birch Tor and Vitifer	1024 Wheat St. Andrew (copyel).
ew S. Caradon (cop.), St. Cleer 0 10 6 Dec. 186:	
ew Treleigh Cons., Redruth 1 18 0 Nov. 186:	2 6000 Wh.Unity(cop.,tln),Gwinear 12 6 0 Feb. 1
	2 4500 Wheel Vlow
ew Wh. Seton) cop.), Camb. 21 10 0	9 1004 Wh Vyyvan (con.) Constantine 7 5 0
orth Buller (cop.), Redruth. 22 17 6	1 6400 Whitford (lead), Holywell 10 16 6 May, in the state of the state o
or, Clifford (cop.), Gwennan 0 5 0 Nov. 186	3 944 Worving Downs (tin), Delinit.
orth Devon (sil. sld.) [L. £1] 0 10 0 July, 186	
orth Devon (ailid.) [L. £1] 0 10 0 July, 186 . Dolcoath (cop.), Camborne 2 16 6 214	MISCELLANEOUS.
orth Cornwall (Endellion)	MISCELLANEOUS. 2 80000 Anglo-Mexican Mint
orth Devon (ailid.) [L. £1] 0 10 0 July, 186 . Dolcoath (cop.), Camborne 2 16 6 214	MISCELLANEOUS. 2 80000 Anglo-Mexican Mint

. Those mines with [S.E.] appended have been admitted on the Stock Exchange. Those mines with [L.] apper Limited Liability.

Our object being to make the Share List correct, we correctly call upon all who have the power, to aid us, by forwarding any alterations or correctly which may, from time to time, come under their notice. To shareholders, as well as those officially connected with the mines, we appeals information. Reports from mines—in fact, mining intelligence of every description, forwarded to our office, will meet ready attention.

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